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POSITIONS OPEN

NOVA SOUTHEASTERN UNIVERSITY

FACULTY POSITIONS. The Departments of Physiology and Pharmacology of the College of Medical Sciences at Nova Southeastern University invite applications for the positions of **ASSISTANT PROFESSOR** in the areas of general or cardiovascular physiology and general, cardiovascular, or neuropharmacology. The College of Medical Sciences is located in the new Health Professions Division facility on the Fort Lauderdale campus. Salaries are competitive and fringe benefits are generous. The candidates' responsibilities will include participation in team-taught courses to health profession students, scholarship, and service. The starting date for the positions is July 1, 1998, pending approval of the Board of Trustees. Please send a letter of intent stating position desired, a résumé, copies of transcripts, and the names, addresses, and telephone numbers of three professional references to: **Nova Southeastern University, Human Resources Department (HLF), 3301 College Avenue, Fort Lauderdale, FL 33314.** *Nova Southeastern University is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS GASTROENTEROLOGY

The Division of Gastroenterology, Department of Medicine, at Baylor College of Medicine invites applications for two tenure or tenure-track faculty positions. **RANK IS OPEN.** Innovative scientists (M.D. or Ph.D.) are sought, preferably with established research programs. Of particular interest are research topics involving epithelial cell biology and host pathogen signaling, mucosal inflammation including inflammatory bowel disease, mucosal immunology, GI physiology and disease, and oncology.

Outstanding applicants in other areas of research in gastroenterology also will be considered. Applicants should have postdoctoral experience, demonstrated research productivity, and use molecular approaches to address research challenges. The successful applicants are expected to pursue independent research programs and may participate in graduate training. Current faculty research activities focus on epidemiology, molecular biology, pathogenesis and treatment of *Helicobacter pylori* and viral infections, mucosal vaccines for enteric bacterial and viral infections, molecular regulation of intestinal development, and regulation of hepatic differentiation and proliferation.

This is an excellent opportunity to join an expanding interdisciplinary gastrointestinal research program with new laboratory space in the active Texas Medical Center. Send curriculum vitae, names and addresses of at least three references, statement of current research activities, and description of future research plans by September 1, 1998, to: **Dr. May Estes, Faculty Recruitment Committee, Division of Gastroenterology, Department of Medicine, Baylor College of Medicine, Houston, TX 77030.**

Baylor College is an Equal Opportunity/Affirmative Action/Equal Access Employer.

FACULTY POSITIONS SECTION OF MYOCARDIAL BIOLOGY

The recently established Section of Myocardial Biology of the Mount Sinai School of Medicine invites applications for faculty positions at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Applicants should have an M.D. and/or Ph.D. degree and an outstanding record of accomplishment in basic molecular and cellular cardiovascular research. Areas of particular interest include cardiac excitability, signal transduction, cardiovascular development, and animal models of disease, although research programs of excellence in other areas will be considered. An extremely interactive environment exists and joint appointments from appropriate basic science departments are anticipated. Generous start-up packages are available, including support from an NIH-sponsored training grant in molecular and cellular cardiology.

Please send curriculum vitae, three letters of recommendation, and a description of research interests to: **Glenn I. Fishman, M.D., Section of Myocardial Biology, Box 1269, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** E-mail: glenn_fishman@smtplink.mssm.edu. *We are an Equal Opportunity Employer fostering diversity in the workplace.*

POSITIONS OPEN

FACULTY POSITION IN PHARMACOLOGY/TOXICOLOGY

A tenure-track position at the level of **ASSISTANT, ASSOCIATE, or PROFESSOR** is available immediately in the Department of Pharmacology and Toxicology at the University of Mississippi Medical Center in Jackson. Applicants should have a Ph.D. or equivalent advanced degree and should have expertise in cellular and molecular approaches to toxicology or neoplasticity/mutagenicity. The successful applicant will be expected to develop an independent, extramurally funded research program and participate in the teaching activities of the department. Interested persons should send curriculum vitae and a brief description of research interests and arrange for three letters of reference to be sent to: **Jerry M. Farley, Ph.D., Search Committee Chair, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505.** The deadline for receipt of applications is September 1, 1998. *Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.*

NEUROSCIENCE BAYLOR COLLEGE OF MEDICINE

The Division of Neuroscience at Baylor College of Medicine is recruiting for a **FACULTY POSITION** in systems neuroscience. The successful applicant will join faculty with research programs taking molecular, biophysical, biochemical, systems, and theoretical approaches to related problems in neuroscience. The successful candidate will become part of an active graduate and postgraduate program and will teach at the graduate level, but will devote most effort to running an independent research program. Applicants should send a curriculum vitae, a statement of research interest, and the names of four references to: **John Maunsell, Division of Neuroscience, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

FACULTY POSITIONS IMMUNOLOGY, PHARMACOLOGY, PHYSIOLOGY

Texas Tech University Health Sciences Center School of Pharmacy invites applications for 12-month, tenure-track faculty positions at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Successful candidates will be expected to develop a strong research program as well as teach and mentor students. Visit our home page at **website: http://ismo.ama.ttuhsu.edu.**

Applicants should submit curriculum vitae, summary of research and teaching interests, and three letters of reference to: **Dr. Quentin Smith, Texas Tech University Health Sciences Center, School of Pharmacy, 1300 Coulter Drive, Amarillo, TX 79106.** FAX: 806-356-4034; e-mail: quentin@cortex.ama.ttuhsu.edu.

Texas Tech University Health Sciences Center is an Equal Opportunity/Affirmative Action Institution. Minorities and women are encouraged to apply.

NEUROGENETICIST DEPARTMENT OF NEUROLOGY COLLEGE OF PHYSICIANS AND SURGEONS Columbia University

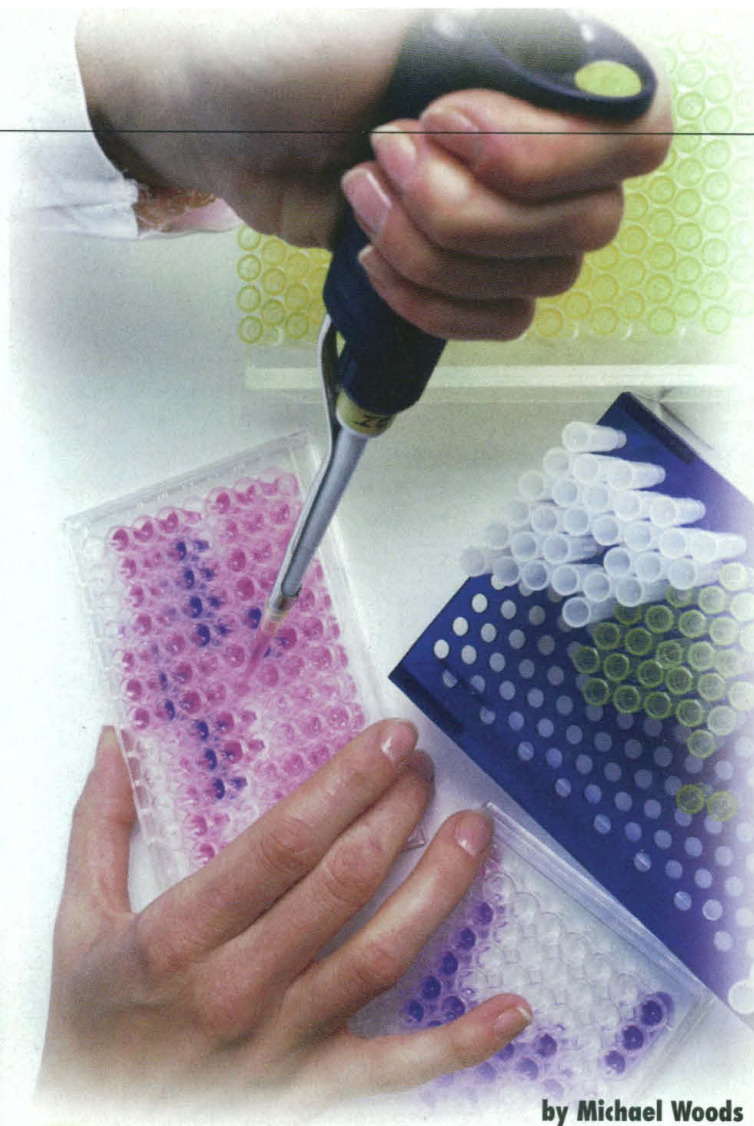
A faculty position at the **FULL PROFESSOR** level is available in the Department of Neurology at Columbia University in New York City. Candidates must have an M.D. and/or Ph.D. degree, evidence of first-rank scientific productivity, and a successful record of extramurally funded research. Research that applies modern techniques of molecular biology to the study of neurological and neurodegenerative disorders is of particular interest.

The successful candidate will be expected to expand existing neurogenetics programs within the Department, and to coordinate research with allied programs, such as the Gertrude H. Sergievsky Center and Taub Alzheimer's Disease Research Center, the Department of Genetics and Development, and the Columbia Genome Center. Salary, space, and start-up funds are highly competitive.

Applicants should send a curriculum vitae and a statement of research interests to: **Dr. Eric A. Schon, Chair, Neurogenetics Search Committee, Department of Neurology, Room 4-431, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity Employer.*

OPENING DOORS FOR A KEY TALENT POOL

Scientists with *dis***Abilities**



by Michael Woods

A lifetime of experience finding creative solutions. The ability to persevere, focus on a problem, and not be frustrated by adversity. Knowing the value of planning ahead. A sense of purpose. Tolerance and understanding, critical for working on a team in an environment of human diversity.

Add excellent scientific skills, and you have key elements of the dream

profile sought by every university admissions officer and industry recruiter. Yet people with disabilities remain "the largest minority" and "the most underrepresented group" in science.

Below, we explore how scientists with varying degrees of disabilities maintain productive careers, and report on an innovative program to increase the pool of highly qualified job candidates with disabilities.

Continued



Photo by Eric Schenk, courtesy of Bristol-Myers Squibb

Bristol-Myers Squibb researcher Zeyu Lin tests compounds that hold promise for treating HIV and other viruses.

Michael Woods writes frequently on the biotechnology and pharmaceutical industries.

Zeyu Lin of Bristol-Myers Squibb: "Focus on Abilities... Just Go for It."

After Zeyu Lin got a medical degree in China and a M.S. in genetics from George Washington University, she discovered a little-recognized reality about working in the world. Being able-bodied can be a temporary condition. Accidents and illnesses can strike anyone anytime, and minor health conditions that existed for years can suddenly worsen, creating disability in individuals with already-established careers. With scientists well represented in the aging Baby Boom generation, an increasing number may find themselves in this situation.

Can scientists who become disabled continue to do productive work?

"My thinking is that they certainly can," said Lin, a research scientist at Bristol-Myers Squibb. "If you love scientific research, and working in a laboratory, I would say just go for it. Continue your work, use your abilities, and don't focus too much on the disabilities."

Lin has a permanently damaged hip joint resulting from a severe childhood bone infection. The condition worsened a few years ago. Lin walks with a cane, finds it more difficult to walk long distances and lift and carry objects in the lab. Lin does bench-top, drug discovery research at Bristol-Myers Squibb, with much of her work focusing on the company's efforts to find new drugs to fight Human Immunodeficiency Virus (HIV).

Like many other scientists with disabilities, Lin uses few accommodations in her job, a situation that challenges a still-common misconception that employing persons with disabilities involves significant expense. Studies have shown that less than 25 percent of employees with disabilities require special adaptations, and about 70 percent of the changes cost less than \$500.

Lin has a handicapped parking space, and rides a shuttle bus from the parking lot to the main lobby mornings and afternoons. In the lab, co-workers lend a hand when Lin needs to lift containers from high shelves, and move heavy objects. She has found that a standard laboratory cart can serve as an excellent combination mover/walker. When fetching ice or dry ice, for instance, Lin loads the cart and then uses it for support as she walks back to her lab bench. Bristol-Myers Squibb also makes a work schedule accommodation, giving Lin a few hours off each week for physical therapy sessions.

The work environment at Bristol-Myers Squibb has been ideal, according to Lin. "Since my first day here, I felt as if people really didn't pay attention to my disability. They asked what I needed to do my job, and how they could help. They've been very supportive. In the laboratory, I'm not even aware of the disability any more though the problem is getting worse. Everybody helps me and asks how it's going."

Lin's condition may worsen in the years ahead. Eventually, she will need a hip joint replacement, but physicians are trying to delay the procedure for as long as possible. Lin is young; new hip joints often last about a decade, and thus she could need multiple procedures over the years.

Judith Summers-Gates of the Food and Drug Administration: "I Come with a Lot of Accessories..."

First and foremost, Judith Summers-Gates is an accomplished chemist whose career has involved bench-top analysis of color additives in drugs, foods, and cosmetics at the U.S. Food and Drug Administration (FDA) laboratory in Philadelphia. In addition, her lectures and demonstrations on coloring agents in school classrooms and museums have been part of the FDA's public outreach efforts.

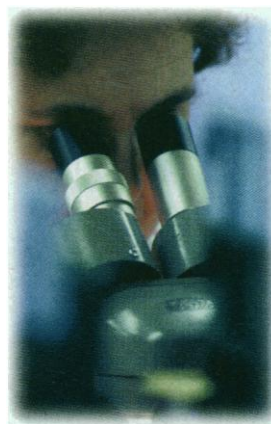
Coincidentally, Summers-Gates manages low vision with eyeglasses outfitted with a small telescope for seeing distant objects and electronic

scanners for viewing close-up. She gets around with crutches, a wheelchair, and an electric scooter because of multiple sclerosis (MS). Carpal tunnel syndrome adds to the weakness that MS causes in her hands. A disorder similar to hemophilia makes her bleed and bruise easily.

How can an individual with multiple physical disabilities have a productive career in science?

"This really is an ideal career for a person with disabilities," says Summers-Gates. "I try to emphasize that when I'm talking to students. If you have excellent scientific skills, the rest falls into place. Most research doesn't require a lot of physical strength or mobility."

Summers-Gates developed low vision from her premature birth. She is blind in one eye and vision in the other is correctable to only 20-70. Parents, teachers, school guidance counselors, and state vocational rehabilitation staff actively discouraged her from a career in science. "It didn't help either, in those days, that I was a girl who wanted to major in chemistry," notes Summers-Gates. "People still regarded it as a nontraditional career for any girl. And here was a nearly blind girl. I basically had to out-stubborn them." The MS appeared when Summers-Gates was 23, further blurring her vision, and causing loss of mobility, hand tremor, and other problems. Carpal tunnel syndrome came later.



For some scientists with disabilities, assistive technology is the key to staying active in research. Summers-Gates makes full use of assistive devices for individuals with low vision. With the sense of humor that delights fellow employees, she observes, "I come with lots of accessories. When they're all turned on, the entire East Coast browns-out." Her closed-circuit television (CC-TV), for instance, consists of a video camera focused onto a motorized tray that can be moved in any direction with a joystick controller. Books and other objects placed on the tray are enlarged and displayed on a TV monitor. A

portable version, a miniature electronic viewing aid (MEVA), consists of a scanner that outputs to a liquid crystal display like those used in handheld television sets. She scans controls and display on a high performance liquid chromatograph (HPLC), for instance, and gets a magnified image.

It is axiomatic that accommodations for an employee with disabilities often benefit others in a laboratory or office. That certainly has proven true with Summers-Gates' magnification devices. Older scientists with bifocals often turn to the CC-TV as a more comfortable way to read fine print in the U.S. Pharmacopoeia-National Formulary and to scan other objects.

With MS and carpal tunnel syndrome affecting hand movements, Summers-Gates uses voice-recognition computer software as an alternative to keyboard and mouse, and a variety of other programs available for people with disabilities. One FDA policy accommodation gives Summers-Gates the option of working at home on icy winter days.

Does Summers-Gates have advice for employers considering a scientist with disabilities?

"Look at the whole person. Consider the abilities first. Don't automatically make the assumption that a person can't or shouldn't perform a task without actually asking. Scientists with disabilities can look at problems from a different and often very creative perspective."

What about advice for individuals with disabilities considering a science career?

Continued



Bristol-Myers Squibb

Pharmaceutical Research Institute

Our People... Focus on Abilities



"Since my first day here, I felt as if people really didn't pay attention to my disability. They asked what I needed to do my job, and how they could help. They have been very supportive. In the laboratory, I'm not even aware of the disability anymore..."



Zeyu Lin, Associate Research Scientist,
Virology, Wallingford, Connecticut

Bristol-Myers Squibb Pharmaceutical Research Institute actively supports and acknowledges the contributions of scientists in virtually every aspect of scientific management and research and development. Their vision, talent and dedication have made a significant impact on the discovery and development of pharmaceutical therapies that improve the health and quality of life of people worldwide.

We invite creative, innovative minds to explore the opportunity to contribute to the future in a collaborative scientific environment dedicated to excellence and integrity. For available opportunities, contact us. Bristol-Myers Squibb uses resume-scanning technology. Please submit on plain white bond paper, using standard type and fonts (no italics, graphics or staples please) to:

Bristol-Myers Squibb Company
Pharmaceutical Research Institute
P.O. Box 4000, Code: PRRG41
Princeton, NJ 08543-4000
FAX: 609-581-8841

Equal Opportunity Employer

"Tune out anyone who automatically says you can't do science. Don't get discouraged. Try to get some real-world experience, an unpaid internship, anything, early on. The more experience you have, the easier it will be to convince a recruiter that you can do the job."

Virginia W. Stern of AAAS: ENTRY POINT — A Win-Win Proposition for Employers and Students with Disabilities

Biopharmaceutical companies face chronic shortages of skilled workers. And employers want to diversify their human resources pipelines to include more scientists with disabilities.

"We have a win-win solution," says Virginia W. Stern, director of the American Association for the Advancement of Science's (AAAS) Project on Science, Technology, and Disability. "ENTRY POINT has been a spectacular success in placing disabled students majoring in mathematics, computer science, electrical engineering, materials engineering, and the physical sciences. It gives employers access to a new pool of talent, and helps students with disabilities break into science. We'd like to expand the program into the life sciences."

ENTRY POINT is a summer internship program that gives undergraduate and graduate students with disabilities the kind of real-world experience that can jump start a career in science. The program is a partnership involving the AAAS, the IBM Corporation, and the National Aeronautics and Space Administration (NASA). In addition to financial support, IBM provides the program with a loaned executive, Jean Morrell, who works with AAAS to expand the program.

In the summer of 1997, ENTRY POINT placed 36 students from 25 colleges at 11 IBM locations and 7 NASA centers. Unum America, an insurance firm in Portland, Maine, and Dupont and Texaco join the



program this summer, when about 40 students will participate. Among the disabilities represented are blindness and low vision, deafness and hard of hearing, paraplegia, cerebral palsy, dyslexia, attention deficit disorder, learning disabilities, osteogenesis imperfecta, spina bifida, muscular dystrophy, and epilepsy.

Stern emphasizes that ENTRY POINT is a talent search, and not a social program. Students must meet the same high qualifications required in other NASA and corporate internship programs. That includes majoring in science or engineering, maintaining a minimum B grade point average, and getting outstanding faculty recommendations for the 10-week program. Companies may invite students back on successive summers, with potential conversion to full-time employment after graduation.

AAAS acts as broker, screening and placing applicants and helping employers in understanding whatever assistive technology or other accommodations a student might need to be a fully productive team member.

Stern noted that applicants have included students majoring in chemical engineering, biology, and other fields in demand in the pharmaceutical and biotechnology industries. Students with disabilities often have excellent computer skills, since computers are a basic assistive technology.

What impresses Stern most about ENTRY POINT applicants?

"These are very creative problem-solvers. They are completely dedicated to careers in science, who will become valuable, loyal employees."

Three Decades of Eliminating Barriers

The AAAS Project on Science, Technology, and Disability, founded in 1975, is the oldest continuing effort to improve career opportunities for people with disabilities in science, engineering, and mathematics. It maintains a database of more than 600 scientists with disabilities who are available for consultation in career choice and other areas; offers a wide range of publications; and fosters internship and other programs. The project pioneered barrier-free meetings, making the 1976 AAAS Boston meeting the first barrier-free meeting by any scientific organization. ■

When and How to Tell: A Dialogue

Scientists with disabilities use different strategies when it comes to telling a prospective employer about their condition. Some mention it on first contact. Others wait, concerned that a disability may close doors before a recruiter fully recognizes their abilities.

At what point in the recruitment process should a scientist with disabilities raise the topic? Some reflections from our panel:

Zeyu Lin, Bristol-Myers Squibb: My thinking is you really don't need to mention the problem when you first make contact. Let the hiring people focus on the rest of your background, your education, your ability working in science, your other job experience. They are looking for a person to fit a job, and those are the really important elements. I don't think a physical disability is a real factor at this point. But as things move further along, you need to make them completely aware of the disability. Obviously, when you come in for an interview, they will be aware of it. I think it may be better to let them know before the first interview.

Judith Summers-Gates, U.S. Food and Drug Administration: I usually mention it before the first in-person contact. Usually, I ask if the building is accessible on mass transit because I don't drive. Or I'll ask if there is a specific building entrance because para-transit will be dropping me off. That usually opens a dialogue. Raising the issue ahead of

time is better for me, because I'll probably be coming into the office with crutches or in a wheelchair, and holding papers very close to my face to read them. But I also make sure to point out that this is a normal situation for me. I've always been this way, and worked in a lab this way. I'm not accident-prone. It is not going to be a problem, and I'm able to work and just go about my business.

Virginia Stern, American Association for the Advancement of Science: There is a divergence of opinion on this point. Most advisors suggest that you allow the recruiter to focus on your scientific and academic qualifications and work experience first. If you have an obvious disability, such as quadriplegia or blindness, I think it really makes sense to explain ahead of time. It prepares the recruiter, and leads to a more comfortable and productive interview. The much stickier issue involves invisible disabilities, such as chronic diseases, or psychological or emotional problems, that may require some accommodation in the future. Applicants with dyslexia or bipolar disorder, for instance, are more apt to disclose their condition these days. But students still are reluctant to disclosing a learning disability because, to the uninformed, it may suggest a lack of achievement. But it can be done. An individual might note that he or she may need to work an hour or two longer on a project, but is willing to do so. I personally feel it is a mistake for an individual with a disability to accept a job without mentioning it.

SmithKline Beecham, a world-class leader in Research and Development, continues to pioneer innovative pharmaceutical and health care products and services. We are seeking the following individuals for our Suburban Philadelphia, PA, facility:

Osteoporosis Research

The combination of innovative research and strong commitment to the discovery of novel therapeutics for musculoskeletal diseases has led to the development of an exceptional Department of Bone and Cartilage Biology. This group is responsible for the discovery of novel therapeutic targets through basic research, and the development of new drugs through interactions within the company matrix. Active areas of research include integrins, cathepsin K, cytokines, calcium receptors, estrogen action and osteoblast activation. The continuing success of the group has led to the availability of several new opportunities:

Team Leader, In Vivo Bone Biology

In this leadership position, you'll use your expertise in animal models of bone formation and resorption to supervise a team of researchers focusing on the discovery, evaluation and development of novel therapeutic agents for osteoporosis. You'll also assist the Director in planning for future departmental goals and identifying new discovery opportunities. We require a PhD in bone cell biology or related area, supervisory experience, along with a minimum of 6 years in a post-doctoral research environment. You'll also need a demonstrated background in independent research activities that support your scientific achievement. Pharmaceutical experience is preferred. (Job Code: H8-TLBBS)

Group Leader, PhD, Bone and Joint Histology/Histomorphometry

You'll use histological and in situ approaches to evaluate drug discovery targets and novel compounds for osteoporosis and osteoarthritis. In addition, you'll present findings through oral and written reports, some for peer-reviewed journals, and attend scientific meetings for continuous scientific productivity. We require a PhD in biological sciences with a minimum of 2 years of relevant post-doctoral research experience. Knowledge of animal models of osteoarthritis is preferred, while bone biology experience is essential. (Job Code: H8-0153S)

Post-Doctoral Scientist

This individual will use molecular and cell biological approaches to work on mechanisms of a novel estrogen receptor ligand, idoxifene while interacting with other researchers in the development of new studies. In addition, you will present findings through oral and written reports, some for peer-reviewed journals, and attend scientific meetings for continuous scientific productivity. We are seeking an individual who is proficient in current molecular/cellular biology techniques, possesses a PhD in biological science, and has 2 years post-doctoral experience. A background utilizing nuclear hormone biology/biochemistry is preferred. (Job Code: H8-0139S)

Research Scientists, Bone Histology/Histomorphometry and In Vivo Bone Pharmacology

Experts for these two positions will be responsible for conducting laboratory experiments that relate to histological analyses of bone including the assessment of in vivo experiments and the ability of specific compounds to affect bone turnover. You'll need a Bachelor's degree in biology, medical technology or a related field, in addition to 3+ years of histology lab experience. Quality coursework in chemistry, experience using computers for data analysis and the ability to function in an interdisciplinary environment are necessary. (Job Code: H8-BBSS)

Scientific Alliance Management

The Alliances and Technologies Group has an exceptional opportunity for a senior individual to manage the scientific and business interactions between SmithKline Beecham, Incyte Pharmaceuticals and diaDexus, their recently founded joint venture in molecular diagnostics. This new venture is expected to forge the evolution of a new era of molecular diagnostic medicine. As part of the department responsible for the establishment and management of technology based alliances and collaborations, this individual will be responsible for maximizing the impact of the SB/diaDexus relationship, including technology sharing and strategic planning. Dimensions of this position also include overall integrated planning, implementation and coordination of interactions between SB and diaDexus, as well as monitoring scientific and drug discovery related activities. In addition, ensuring the transfer and availability of all relevant technology and information between the partners is a critical component.

We are seeking an exceptional scientist with a broad combination of skill and experience, including a PhD in chemistry, biochemistry or molecular biology and at least 10 years of experience within the pharmaceutical and/or diagnostics industry. Demonstrated ability to manage multiple complex projects is necessary, including working with research teams and utilizing cutting edge genetic and informatics technologies in diagnostics or drug discovery research. Proven success in evaluating, developing and managing technology-based research collaborations is essential, as are excellent communication skills and ability to interact effectively with people from diverse organizations, backgrounds and cultures. This is a rare opportunity to be part of a world-class organization, and to help change the world of molecular diagnostics. (Job Code: H8-0116S)

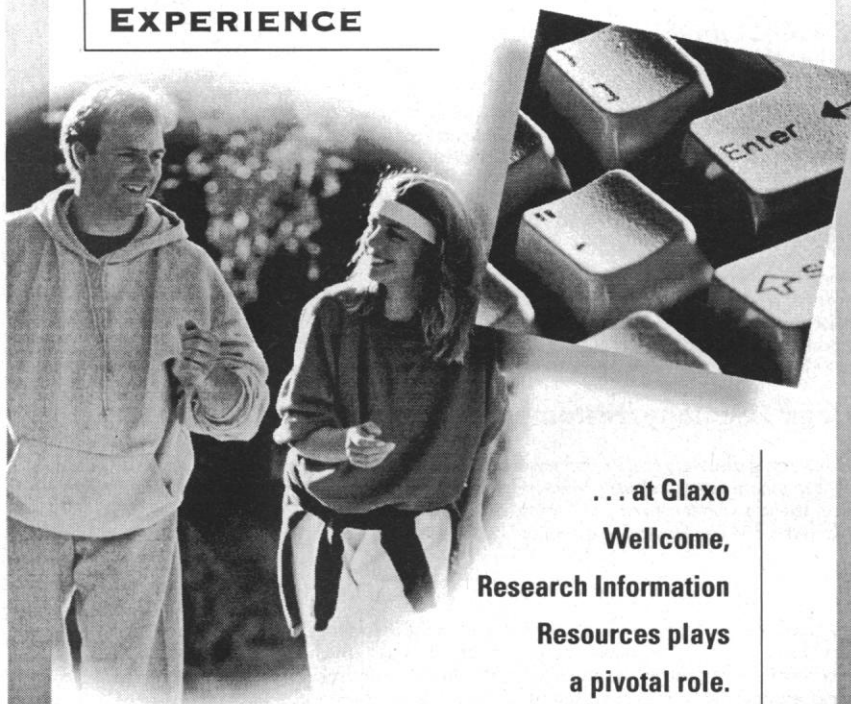
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As a key member of our Bioinformatics Team, this highly motivated individual will provide the application development mechanisms necessary to design, implement, and maintain a set of CORBA middleware components/objects that will allow this group to easily and efficiently build applications to progress and promote the research of Genetics/Genomics. This individual will create data/process "services" that can be used by all developers to manage and retrieve key genetics information for use in other research areas.

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THE UNIVERSITY OF IOWA
College of Medicine

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ANATOMY – Research areas include fetal alcohol syndrome, cell and molecular biology, cancer, development, muscle including cardiovascular, and neuroscience. **George McHenry, 1-577 Bowen Science Building.**

BIOCHEMISTRY – Research areas include biochemistry, biophysics, cell biology, and molecular biology. **Dr. Arthur A. Spector, 4-403 Bowen Science Building.**

INTERNAL MEDICINE – Research areas include allergy-immunology, cardiovascular diseases, clinical pharmacology, endocrinology, gastroenterology/hepatology, general internal medicine, hematology/oncology, infectious diseases, nephrology, pulmonary-critical care and occupational medicine, and rheumatology. Applications should be directed to **Carol Wehby, E400, GH.**

MICROBIOLOGY – Research areas include immunology, virology, pathogenic bacteriology, microbial genetics, microbial physiology, biotechnology, and medical mycology. Send curriculum vitae and the names/telephone numbers of 3 references to **Ms. B. K. Spence, 3-403C Bowen Science Building.**

NEUROLOGY – The Department of Neurology welcomes applications for Postdoctoral Associate positions, which may be recruited in the following subspecialty areas: Neuropsychology, Epilepsy, Cerebrovascular Disease, Stroke, Clinical Electrophysiology, Neuromuscular Disease, Neurochemistry, and the Laboratory of Neurobiology and Circulatory Control. **Antonio R. Damasio, M.D., Ph.D., Professor and Head, Department of Neurology.**

OPHTHALMOLOGY – Research areas include both molecular biology (pcr, DNA sequencing, SSCP) and cell biology (light and electron microscopy, tissue culture). Send application to **Pat Smith, 11136B PFP.**

PATHOLOGY – Research areas include molecular and cellular pathology, immunology, cancer biology, molecular virology, cell cycle control, vascular biology, microbial antibiotic resistance, translational research and outcomes research. **Mari Kucera, 1032 Medical Laboratories.**

PEDIATRICS – Possible openings in all of pediatric specialties. **Dr. Frank H. Morriss, M.D., Professor and Head.**

PHARMACOLOGY – Openings available in all areas of Pharmacology, including molecular and cellular mechanisms of drug action and metabolism, signal transduction, and neuropharmacology. **Dr. Gerald F. Gebhart, Professor and Head, Bowen Science Building.**

PHYSICAL THERAPY – Research areas include neurobiology of nociception and muscle fatigue. **Judy Biderman, 2600 Steindler Building.**



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Novartis Agribusiness Biotechnology Research, Inc. (NABRI), a Novartis Group Company formed from the merger of Ciba and Sandoz, has become the natural habitat of some of the world's brightest scientific professionals. Located in the heart of North Carolina's Research Triangle Park, our diverse scientific teams have access to a wealth of resources, enabling them to apply tomorrow's technology toward addressing today's critical research issues.

Plant Molecular Biologist #9837

In this role, you will work independently as a plant molecular biologist to isolate genes and corresponding cDNA's from insertional mutants of plants. Key responsibilities will include analyzing DNA sequences with computer programs, determining functions of predicted gene products, and assessing the feasibility of development assays.

To qualify, you must have a bachelor's or master's degree in the biological sciences and 5 years of molecular biologist experience including extensive experience with genomic DNA and cDNA isolation. You must also have experience with computer and web-based programs for the analysis of DNA sequence (i.e. Sequencher, GCG, Entrez, BLAST). The ability to design strategies for cloning, sequencing and analyzing complex DNA fragments is essential. A sound understanding of genetics, plant physiology and biochemistry would be desirable.

Molecular Biologist #9740

The successful candidate will be an important part of a team working on the Genetics and Molecular Biology of polyketides and other bacterial metabolites. This position involves engineering of complex biosynthetic loci in bacterial systems, as well as manipulation and analysis of gene expression.

The ideal candidate will have a MS/BS with 4+ years research experience in Molecular Biology or related field. PhDs with no postdoctoral experience are also welcome to apply. Position stresses superior gene cloning and analysis abilities, ability to design and execute complex cloning strategies, and strong communication skills. Ability to work independently in a team environment is essential. Previous experience in manipulation of large DNAs or bacterial genetics would be preferred.

Novartis offers a competitive salary commensurate with qualifications and experience, a comprehensive benefits package including full health care and pension provisions, and an environment conducive to professional achievement. The RTP area is consistently ranked as one of the most desirable areas in the USA for working and raising a family. Qualified candidates should email (Word format) a resume and cover letter indicating Position # to: biotech.jobs@cp.novartis.com. Principals only. We are an Equal Opportunity Employer M/F/D/V.

Associate/Staff Scientist (Molecular Biology)

At DuPont Merck, we blend diverse talents to create an environment focused on applying world-class science to the discovery and development of novel solutions for major unmet medical needs. We devote an extraordinary amount of resources to research and development because we believe life and health can be made better.

Our Central Nervous System Diseases Research department has an immediate opening for an Associate/Staff Scientist. Individual will be responsible to perform experiments involving cell culture, molecular biological and biochemical methods with daily-weekly supervision in the area of CNS diseases.

The successful candidate will possess a BS/MS degree in a relevant subject with a minimum of one year of related work experience. Experience in the following areas is desired: primary neural cell

cultures, recombinant DNA, PCR, gene expression analysis, mammalian cell transfection, and analysis of data using PC-based scientific software. Good communication skills and ability to work effectively in a team environment are essential.

We're a growing company with world-class talent and vision. We recognize and reward achievement and distinction at all levels. At DuPont Merck, we believe that individual growth and business success are inseparable. We offer a competitive salary, comprehensive employee benefits, and an appealing work environment.

For immediate consideration, please submit resume, research summaries and letters of reference to: The DuPont Merck Pharmaceutical Company, P.O. Box 80400, E400/4418, Wilmington, DE 19880-0400, Attn: CNS/AR. An equal opportunity employer.



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POSITION ANNOUNCEMENT

**Biotechnology Center
University of Illinois**

Assistant Director

W. M. Keck Center for Comparative and Functional Genomics

Proposed Starting Date: September 1, 1998

Qualifications: Ph.D. in molecular biology or related field with at least two years of postdoctoral experience. Applicants should have demonstrated expertise in a wide array of molecular biological techniques including cloning, sequencing, PCR, hybridization, plasmid constructions, and library construction/screening. Additional experience in genome projects and DNA microarray techniques is highly desirable. Strong computer skills, as well as organizational, interpersonal, and communication skills are essential.

Responsibilities: The Keck Center will be focusing on two areas; genome sequencing of animal, plant, and microbial genomes with a strong emphasis on comparative genomics, and functional genomics for studying gene expression. To serve these two purposes, the candidate should have experience with constructing physical maps, PFGE, BAC cloning, cosmid libraries, subcloning, restriction maps, shotgun sequencing, and related applications. The candidate is also expected to direct gene expression projects, using microarray technology. The candidate will work closely with our high-throughput sequencing group and our bioinformatics group on special projects. As Assistant Director of the Keck Center the candidate is expected to collaborate closely with faculty, write research grants, and publish in reviewed journals.

Type of Position and Salary: Full-time, 12-month regular academic professional position. Salary is commensurate with experience.

Application: Send letter of application with complete curriculum vitae and three letters of recommendation to: **Dr. Barbara Whitmarsh, c/o Elaine Sampson, Biotechnology Center, 901 S. Mathew Ave., Urbana, IL 61801.**

Deadline: For full consideration, applications should be received by 5:00 pm on July 31, 1998.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Minorities, women, and other designated class members are encouraged to apply.

Expanding Opportunities for Career-Enhancing Research

Parke-Davis Pharmaceutical Research in Ann Arbor, a division of Warner-Lambert, announces the exciting expansion of their genomics research efforts with the establishment of the new *Parke-Davis Laboratory for Molecular Genetics*. The unique research setting offers tremendous opportunities for you to be part of our scientific team that will focus on animal and human genetics/genomics programs to identify disease-causing genes. These positions will be located in the San Francisco/Oakland Bay area:

Transgenic/Gene Targeting Scientist

We are currently seeking an energetic Scientist to set-up and manage a mouse transgenic and gene-targeting facility. A Ph.D., a strong background in transgenic mouse production and gene targeting and 3-7 years' experience are required. Some managerial experience would be advantageous.

Mouse Geneticist

The selected individual will participate in developing mouse models of human complex diseases to participate in positional cloning and expression analysis programs and lead specific gene discovery programs while utilizing mice. A Ph.D. and 3+ years' postdoctoral experience are required. A strong interest and expertise in bioinformatics and data-mining approaches for gene discovery is a must.

Postdoctoral Fellowships

Two positions are available immediately focusing on mouse genetic analyses to understand human disease. These studies include: gene mapping, transgenic and gene targeting analysis, positional cloning and functional analysis of candidate genes.

Database Administrator

The chosen candidate will administer Oracle genomics and LIMS databases on NT and UNIX platforms while working closely with the scientific and technical staff in analyzing, tuning and optimizing the performance of new and existing database systems. In addition, responsibilities will include: implementing automation, security, crash-recovery and backup procedures. A BS in Computer Science, Engineering or related discipline; 3-5 years of hands-on experience in the genomics/bioinformatics area; a demonstrated background working with RDBMS, client/server architectures and SQL are required. Excellent problem solving and communication skills and familiarity with Oracle and Oracle development tools are required. Experience with Java and JDBC is desirable.

Bioinformatics Scientist

This candidate will work closely with geneticists and molecular biologists to develop and implement new analytical algorithms and to analyze and manipulate genetic data from animal breeding experiments and human genetics studies. A Ph.D. in Mathematics, Statistics, Physics or equivalent experience, excellent programming skills and familiarity with NT and UNIX operating systems are required. Three to five years of experience working in multidisciplinary teams in a highly competitive environment is essential. Knowledge of CORBA, Java and JDBC is desirable. A background with relational database systems (SQL) is a strong plus.

Enjoy a competitive salary, benefits and an environment that supports your professional growth. Qualified candidates please mail your resume to: **Human Resources Director, Parke-Davis Laboratory of Molecular Genetics, 1501 Harbor Bay Parkway, Alameda, CA 94502.** Equal opportunity in action. Smoke-free work environment.

*Please submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid bold-face, italics, borders, etc.



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National Institute for Discovery Science

ESSAY COMPETITION

- Continuing radiotelescope searches, the announcement of the creation of NASA Astrobiology Institutes, and recent research on Martian meteorites suggest that scientific interest in the possibility of the existence of extraterrestrial life is increasing.
- To stimulate critical thinking and debate, the National Institute for Discovery Science (NIDS), a private research institute, is pleased to announce an essay competition on an array of topics surrounding the search for extraterrestrial intelligence.
- Scientists from all disciplines are invited to submit essays on the first announced topic by August 11, 1998, to the NIDS.
- Essays are to be typewritten in English, up to thirty-five double-spaced pages in length.
- Essays will be judged by a panel of seven scientifically qualified experts with multidisciplinary experience, the top three essays will each be awarded \$5,000.
- There will be several sequential rounds of essays at 75-day intervals, each focused on a different question and for each round a total of \$15,000 in prize money will be awarded.
- Authors retain ownership but NIDS reserves the right to publish the winning essays on our website as well as to publish them in a proceedings anthology.
- All details concerning the rules of the competition, the deadlines, and the essay subjects are posted on The NIDS website:
www.accessnv.com/nids.

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At the Schering-Plough Research Institute insightful scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. If you are seeking an opportunity to be on the cutting edge of pharmaceutical discovery, become part of an expanding multidisciplinary group focused on hepatitis C and B viruses and immunodeficiency virus.

SENIOR SCIENTISTS

Excellent opportunities are available for innovative, independent and highly motivated scientists to join a multidisciplinary team involved in HCV antiviral research. To qualify, you will need a Ph.D. degree and at least 2 years of postdoctoral experience in Virology/Antiviral Research and Molecular Cell Biology. Expertise in hepatitis C virus or related (+) stranded RNA viruses is preferred. Strong organization, interpersonal and communication skills are essential. Demonstrated ability to work as a team member is critical. To be considered for this position, please respond to Dept. VIR/SS/DMS.

ASSOCIATE SCIENTISTS/SCIENTISTS

Several positions are available for talented, organized and highly motivated scientists to join a multidisciplinary team involved in HCV/HBV/HIV antiviral research. To qualify, you will need a BS degree in Molecular Biology or related discipline and 4-10 years of experience or an MS degree and 2-8 years of experience. Background must include expertise in cloning and expression using various systems, protein purification and characterization. Familiarity with enzymology, virology and cell culture techniques is preferred. Demonstrated ability to work both independently and as a team member is critical. To be considered for this position, please respond to Dept. VIR/AS/DMS.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Human Resources-DMS, Schering-Plough Research Institute, MS #1255, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. To find out more information, please visit our website at www.sp-research.com. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



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An editorial position at *Science* is available for a Ph.D. scientist with a broad range of interests and research experience in the general field of signal transduction. Applicants should have postdoctoral experience and publications in peer-reviewed journals. This position offers an exciting opportunity to explore new modes of information technology. Interest in electronic publishing and experience with Web technology are desired. Editors have varied responsibilities including solicitation, selection, and editing of manuscripts. Previous editorial experience is not required. This is a one-year full-time position in our Washington, DC, office; however, extension of the position for a successful incumbent is considered likely.

Applicants should send their curriculum vitae, a cover letter describing their qualifications and salary requirements, and contact information for three references to:

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AAAS
1200 New York Avenue, NW
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Science



**United States Environmental Protection Agency
National Exposure Research Laboratory
Human Exposure and Atmospheric Sciences Division**

The U.S. Environmental Protection Agency (EPA) is seeking highly qualified senior scientific/engineering candidates for the Director of the Human Exposure and Atmospheric Sciences Division (HEASD), National Exposure Research Laboratory (NERL) located at Research Triangle Park (RTP), North Carolina. The NERL is responsible for conducting research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. The HEASD conducts intramural and extramural research to characterize exposures, across the whole of the exposure assessment paradigm from pollutant source to the dose delivered to the exposed person or receptor. The principal foci of the Division's research are human exposure to chemical pollutants and atmospheric sciences. The Division's research mission encompasses aspects of all components of the exposure assessment paradigm, including exposure/source research; atmospheric processes modeling research; environmental characterization research, including characterizing microenvironmental concentrations/exposures, and defining the critical routes of exposure; exposure analysis research; and exposure/dose research. The human exposure research has both modeling and measurement aspects. It focuses on exposures to susceptible subpopulations and includes field studies of total exposure measurements, the development of probabilistic human exposure models, and the linkage of these models to environmental process models and dose models to achieve source-to-dose models. The atmospheric sciences portion of HEASD's research includes the development and application of instruments and methods to measure atmospheric pollutants and their precursors; chamber and kinetics studies of the chemistry of air pollutants; the development of source apportionment techniques; and the comprehensive profiling of emissions from on- and off-road mobile sources burning gasoline with and without fuel additives.

The Director of HEASD plans, develops, organizes, directs, and implements a highly technical and complex research and development program that has nationwide impact with an annual budget in excess of \$25M and a staff of approximately 130 employees located in RTP and Las Vegas, Nevada. The Director and scientists under the Director's supervision are the Agency's experts in the area of multipathway, multimedia human exposure to environmental contaminants and atmospheric sciences, measurement methods, chemistry, and source characterization; and, therefore, they interact and represent the Agency to a large community of scientists, both nationally and internationally, as well as to the general public and legislative leaders. Ultimately, the research performed will provide an understanding of the critical factors to be considered in developing and implementing programs for the protection of the public's health.

The preferred candidate for this position will have a doctoral degree in one of the biological, physical, or mathematical sciences or in an engineering field. Candidates must also have scientific expertise in either atmospheric sciences or human exposure to chemicals and have demonstrated leadership in scientific management of state-of-the-art programs in atmospheric sciences or human exposure to chemicals. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. Salary ranges from \$104,577–\$114,486 per annum, commensurate with the level of appointment in the Senior Executive Service.

To apply for this position, you must obtain a copy of the vacancy announcement and submit an application containing all the requested information by the closing date of the announcement. All applications for this position must be postmarked by 8/28/98. The vacancy announcement may be obtained by calling or writing **Ms. Karen Stinson (202) 260-6374, U.S. EPA, Executive Resources & Special Programs (3641), 401 M Street SW, Washington, DC 20460**. The announcement may also be viewed on the Office of Research and Development's Internet Site at <http://www.epa.gov/ord/>.

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**EDEN BIOSCIENCE
CORPORATION**
Employment Opportunity

EDEN Bioscience Corporation is an agricultural biotechnology company located near Seattle, Washington.

Job: Plant Pathologist (Scientist) to work in our Plant Diagnostic Laboratory. Our retail diagnostic laboratory provides both national and international growers a prompt and accurate resource for plant pathology diagnosis.

Duties: Identify and quantify nematodes extracted from soil and tissue samples. Identify fungi and bacteria isolated from sample materials. Evaluate soil dilution platings for specific organisms as required. Prepare and review reports for clients and make appropriate management recommendations for problem(s) identified. Discuss results with clients when necessary. Occasional field visits will be required, as well as attendance at regional and national professional meetings and shows.

Qualifications: M.S. in plant pathology or related field and 1-5 years related professional experience; Ph.D. in plant pathology and commercial experience preferred. Familiarity with methods and techniques of plant pathology is essential. Good working knowledge of a wide range of plant health problems necessary. Experience with horticultural aspects of plant growth, plant physiological requirements and responses. Demonstrated computer competence, good interpersonal skills, and basic administrative knowledge also important.

Compensation: Salary and incentive programs dependent upon qualifications.

Send résumé and references to:

EDEN Bioscience Corp.
Human Resources Division
11816 North Creek Parkway North
Bothell, WA 98011-8205
E-mail: petersonb@edenbio.com

Research Assistant/ Associate

NEW ENGLAND BIOLABS, INC.

New England BioLabs, a world leader in the production of restriction endonucleases and other related products for the recombinant DNA field, seeks applicants for a Research Assistant/Associate opening. Position is available, starting August 1, 1998, to investigate the molecular mechanism of protein splicing and develop intein-based protein purification systems. Candidates should have a B.S. or higher degree in Biochemistry, Molecular Biology, or related field, and broad experience in recombinant DNA techniques and protein engineering, such as vector construction, over-expression and protein purification. Send a resume and three references to: **Dr. Ming-Qun Xu.**

New England Biolabs, Inc.

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Faculty Positions
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Divisions of Basic Sciences and Immunology
National Jewish Medical and Research Center

Faculty positions available in a newly established program in developmental biology and genetics. Successful candidates will be expected to establish competitive research programs that utilize state-of-the-art technologies, e.g. DNA display and gene manipulation, to study aspects of developmental biology relating to lymphopoiesis/hematopoiesis, oncogenesis, or vascular biology and inflammation.

Candidates should have a Ph.D. and/or M.D. degree, at least two years of post doctoral experience, and a proven record of outstanding research. An excellent start-up package will enable successful candidates to develop outstanding independent research programs.

Please send a curriculum vitae, research statement, and three letters of reference to:
John C. Cambier, Ph.D.
Chair, Search Committee
National Jewish Medical and Research Center
1400 Jackson St.
Denver, CO 80206

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**NATIONAL
JEWISH**
Medical and Research Center

Director, Neuropsychiatric Research Institute

**The University of Massachusetts
Medical School**

The University of Massachusetts Medical School (UMMS) announces the creation of a major new research institute dedicated to basic science research on major mental illness. Applications are invited for the joint position of Founding Director, Brudnick Neuropsychiatric Research Institute and Professor in the Department of Psychiatry. The soon-to-be completed Institute, a collaborative effort of UMMS and the Massachusetts Department of Mental Health, is a new state-of-the-art building consisting of 25,000 square feet of laboratory space and additional office and conference facilities. The position requires an individual who is an accomplished basic scientist with the ability to bridge the areas of clinical and basic neuroscience research. The position requires an individual with a demonstrated commitment to research and leadership skills in research administration and medical education. Excellent opportunities for collaboration with basic and clinical departments are available and the Director will play a major role in the continuing growth of basic and clinical neuroscience at UMMS. Opportunities for joint appointments with basic science departments are available. Salary and fringe benefits are competitive and the Medical School will provide a recruitment package designed to facilitate the development of an outstanding research institute.

Those interested in applying for the position should send their complete CV to: **Dr. Anthony J. Rothschild, M.D., Irving S. and Betty Brudnick, Professors of Psychiatry, University of Massachusetts School of Medicine, Room S7-802, 55 Lake Avenue North, Worcester, MA 01655.** Nominations consisting of name, telephone number and address should be sent to

Dr. Rothschild. Review of applications will begin upon their receipt.

The University of Massachusetts Medical School is an equal opportunity/affirmative action institution.





The National Institute for Occupational Safety and Health (NIOSH) has established a new, state-of-the-art research facility in Morgantown, West Virginia, to conduct research on the mechanisms underlying adverse health effects associated with workplace exposures. NIOSH is seeking postdoctoral fellows to participate in laboratory-based research programs that will apply cellular, molecular, and genetic strategies, as well as computational modeling, industrial hygiene and engineering control technology methodologies, to problems in occupational safety and health.

Positions are available with the following researchers:

Alan A. Poland - Mechanisms of 2,3,7,8-tetrachlorodibenzo-p-dioxin and other halogenated aromatic hydrocarbons. Areas of research address agonist efficacy, pharmacokinetics, and signal transduction in tissue specific toxicity.

Sidney C. Soderholm - Computational biology and industrial hygiene research in computational molecular biology, structure-activity relationships, physiology-based pharmacokinetics, percutaneous absorption, physical chemistry of particle surfaces, and development of monitoring instruments for the occupational environment.

Robert R. Mercer - Mechanisms of lung dysfunction from inhaled toxicants such as silica dust and agricultural dust. Research employs quantitative morphometric and biochemical analysis.

Anna A. Shvedova - Molecular mechanisms through which enzyme-

generated phenoxyl radicals cause oxidative damage of DNA, proteins, and lipids. Research focuses on dermal exposure to industrial phenolics.

Stephen H. Reynolds - Research focuses on the isolation of lung cancer susceptibility genes. Experience in positional cloning is highly desirable.

Sally S. Tinkle - Molecular mechanisms underlying the dermal response to occupational chemicals, in particular, the early events following chemical elicitation of dermal inflammation and sensitization.

James P. O'Callaghan - Mechanisms underlying neuronal and glial responses to neurotoxic insult with an emphasis on growth-associated phosphorylation pathways.

Diane B. Miller - Studies address the functional molecular changes associated with acute and chronic stress with an emphasis on nervous system effector mechanisms.

B. Jean Meade - Research focuses on the mechanisms of chemically induced immunotoxicity (immunosuppression and hypersensitivity) following occupational exposure, the development of animal models, and *in vitro* methods for detecting chemicals with potential to induce irritation and hypersensitivity responses.

Aaron Schopper - Research positions are available in the Engineering discipline in the areas of Office Ergonomics, Exposure Assessment, Musculoskeletal Injury Mechanisms and Speech Interface in the Office.

Interested applicants should possess an advanced degree (Ph.D., M.D., or D.V.M.) and be a U.S. citizen. Please send a resume or curriculum vitae to:

Mr. John Valosen
Health Effects Laboratory Division, National Institute for Occupational Safety and Health, m/s 4020, 1095 Willowdale Rd.
Morgantown, WV 26505

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PLANT BIOLOGIST

Applications are invited for a faculty position at The Carnegie Institution of Washington, Department of Plant Biology at Stanford University. We are particularly interested in identifying an outstanding colleague, at any level of seniority, with basic research interests in some aspect of plant biology that may contribute toward the understanding or amelioration of environmental problems. In this context, we will consider applications from individuals with interests ranging from biotechnology to ecology. For instance, we envision that advances in understanding the molecular mechanisms of plant growth and development may permit the development of highly productive crops that require minimal inputs. We also envision that improved understanding of ecosystems may facilitate the design of improved strategies for biodiversity conservation.

The Carnegie does not have a system of academic rank, but salary will be commensurate with experience and level of accomplishment. Applications should include a curriculum vitae, three reprints of representative publications, and a concise statement of present and future research plans.

Complete applications and three letters of recommendation should be received no later than August 15, 1998. Please mail applications to **Chris Somerville, Director, Carnegie Institution of Washington, 260 Panama Street, Stanford, CA 94305.**

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BIOTECHNOLOGY'S Leading Edge leads straight to Lilly.

Lilly is a premier biotechnology company and a world leader in the production of therapeutic proteins. Our Division of Research Technologies and Proteins is leading the way in the race to identify drug targets and develop therapeutic proteins. Our position and resources allow us to offer remarkable opportunities for equally remarkable professionals who insist upon cutting-edge projects and excitement in their work.

Endothelial Cell Biologist

We are seeking a highly motivated and innovative individual with expertise in inflammation and endothelial cell biology to join a team of molecular/cellular biologists responsible for the discovery and functional characterization of drug targets and therapeutic proteins. The applicant should have broad experience in mammalian cell biology and the use of molecular and cellular tools to explore gene function, with a specific emphasis in endothelial cell biology as it relates to inflammation. Candidates should have a Ph.D. in the biological sciences with a minimum of two years post-doctoral experience.

For confidential consideration, please send your resume and cover letter indicating the position of interest to: Eli Lilly and Company, ADSCMPH46, Division of Research Technologies and Proteins, DC1818, Lilly Corporate Center, Indianapolis, IN 46285. We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

For other opportunities at Eli Lilly and Company, please contact our Job Bank at: <http://www.lilly.com>

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Eli Lilly and Company

Research Positions Available

Mycogen Corporation, a diversified biotechnology and agribusiness company that develops and markets seeds and value-added traits for genetically enhanced crops, has immediate opportunities in their San Diego Research group.

Research Assistant and Associate positions are available in Mycogen's Toxin Discovery group in San Diego, California, to support lead development in a screening program to discover insecticidal proteins. Responsibilities include bioassay and advancement of leads through various stages of development, encompassing bacterial strains, clones, purified proteins, and transgenic plant tissue. The position requires close and effective interaction with biochemistry, cell biology and molecular biology research staff. Applicants must have a record of independent work, have a working knowledge of experimental design, and demonstrated experience in problem-solving. Experience in insect rearing or insect bioassay using diet or plants is preferred, and some history of methods development is desirable. The successful candidate will be detail-oriented and will demonstrate strong organizational and communication skills (verbal and written). B.S. or M.S. is required in biological sciences (entomology or related discipline preferred).

Mycogen Corporation offers a competitive salary and complete benefits package. If you qualify and are interested in a position, please submit resume with salary history (resumes without salary history will not be considered) to: **Mycogen Corporation, HR/ENT-BS, 5501 Oberlin Drive, San Diego, CA 92121, USA.** Job postings can be viewed on the Mycogen Web site at: www.mycogen.com. E-mail should be directed to: jobs@mycogen.com. Please note that any offer of employment is contingent upon submission of legally acceptable proof of eligibility to work in the USA. EOE.



Molecular Pharmacology Assistant or Associate Professors

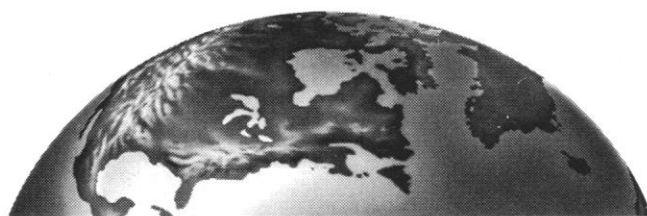
The University of Iowa, College of Medicine invites applications for faculty positions from highly qualified individuals. The successful applicants will be expected to maintain a dynamic extramurally supported research program, excel in teaching, and contribute actively to strong departmental and interdepartmental graduate programs.

The Department of Pharmacology is committed to the appointment and support of highly promising individuals applying modern approaches to study contemporary questions in signal transduction, neuroscience, and/or cancer biology. We seek to identify individuals who will complement Departmental and Collegiate strengths in signal transduction and in the identification of novel gene products, their expression and function (for faculty information: www.medadmin.uiowa.edu/~pharm).

Candidates with a Ph.D. and/or M.D. and an excellent record of research productivity and quality should submit before August 31, 1998, a curriculum vitae, summary of research accomplishments (including copies of key publications), description of future research plans, and the names of at least three referees to:

**Chair, Search Committee
Department of Pharmacology
College of Medicine
Bowen Science Building
The University of Iowa
Iowa City, IA 52242-1109**

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SCIENTIST (POSTDOCTORAL LEVEL)

Ph.D. scientist trained in arachidonic acid metabolism and biochemistry wanted to dissect mechanistic role of this pathway in immune cell physiology and in vivo models of inflammation. Training in lipid metabolism and methodology, as well as in cellular biology and tissue culture required.

Monsanto offers a competitive salary and excellent benefits package. For immediate consideration for this position, please send your CV, three letters of reference, and a cover letter detailing your experience and scientific interest to **Dr. Philip Needleman, Senior Vice President and Chief Scientist, Monsanto Company, 800 North Lindbergh Blvd., Mail Zone: A3SC, St. Louis, MO 63167.** EEO/AA Employer M/F/D/V. Please visit our website at www.monsanto.com.

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RESEARCH OPPORTUNITIES

St. Jude Children's Research Hospital, located in Memphis, Tennessee, is one of the world's premier research centers for research and treatment of catastrophic diseases in children, primarily pediatric cancers. St. Jude is a learning environment offering professional growth and diversity for the research technologist. Biomedical education extends beyond the laboratory and clinical experience. Workshops, seminars and lectures are regularly presented by both the St. Jude faculty and distinguished visiting investigators. Our non-faculty research staff career ladder provides several levels of promotion and financial compensation for talented and motivated technologists to advance in their field. Experienced technologists may assist the principal investigator by performing research experiments, developing new procedures, participating in the publication of research results, managing laboratory operations and training laboratory personnel. Opportunities are available in a variety of programs.

For additional information, please refer to our website:

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Candidates may also call our Job Hotline at:

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NATIONAL PROGRAM LEADER for Engineering/Energy, USDA, ARS, National Program Staff, Crop Production, Product Value, and Safety, Beltsville, Maryland is seeking Agricultural or Chemical Engineer. Salary commensurate with experience (\$77,798-\$101,142). Appointment is permanent full-time position and requires U.S. citizenship.

Incumbent serves as a National Program Leader responsible for coordinating ARS' engineering and energy research programs, which involve the application of both traditional and emerging fields of engineering and physical sciences to the solutions of agricultural, food and fiber production, and processing problems. Candidates must possess 1) a Bachelor's degree or higher in professional engineering and 2) specialized experience equivalent to the next lower grade level and directly related to the position. (For specific qualifications see vacancy announcement.) For program information, contact **Judy St. John** at (301) 504-6252, fax: (301) 504-6719, or e-mail: jsj@ars.usda.gov. For application package with complete qualifications requirements and instructions, contact the **Human Resources Division**, (301) 504-1484 and request vacancy announcement number ARS-X8B-8208. Applications must be postmarked by August 24, 1998.

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www.ars.usda.gov/afm/hrd/resjobs



EPIDEMIOLOGIST - Herpesviruses
Division of Viral & Rickettsial Diseases
National Center for Infectious Diseases
Centers for Disease Control & Prevention

The Centers for Disease Control & Prevention is seeking qualified applicants for an Epidemiologist position in the Viral Exanthems & Herpesvirus Branch, Division of Viral & Rickettsial Diseases. The incumbent will function as a key member of a multidisciplinary scientific team responsible for the development, implementation, and evaluation of novel laboratory-based epidemiologic research studies. This research includes identifying factors applicable to the etiology, diagnosis, therapy, and conduct of laboratory-based studies of diseases associated with HCMV, HHV-8, and other herpesviruses (e.g., atherosclerosis, mental retardation, multiple sclerosis, Kaposi's sarcoma).

Qualifications include outstanding scientific credentials; experience and certification in infectious disease, pathology, or epidemiology; and proven ability to engage in original laboratory-based epidemiologic research with other scientists. A medical degree or advanced degree (Ph.D., Sc.D., or other) in epidemiology is required. Candidates will be evaluated based on (1) professional knowledge of current facts and theory in the epidemiology and pathogenesis of herpesviruses infection and disease; (2) ability to utilize epidemiological, biostatistical, and laboratory methods to design, manage, and evaluate epidemiology research programs involving herpesvirus infections and associated diseases; (3) written communication abilities; (4) oral communication abilities; and (5) skills in leading multidisciplinary epidemiology, statistical, and laboratory research programs.

The position will be an initial two-year Research Fellow appointment. Annual salary range from \$55,400-\$85,104 depending on qualifications.

Interested applicants should send their CV and names of three references (including the current supervisor) by July 31 to **Ms. Janie L. Oddy, Human Resources Management Office, Centers for Disease Control & Prevention, 1600 Clifton Rd., NE (C-12), Atlanta, GA 30341-3724. E-mail: jlo0@cdc.gov.**

National Cancer Institute
National Institutes of Health, Public Health Service

**CANCER PREVENTION
FELLOWSHIP PROGRAM**

The National Cancer Institute is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: *Master of Public Health training* (at accredited one-year university programs); *Participation in the Cancer Prevention and Control Summer Academic Course* (open to physicians and scientists interested in specialized instruction on the principles and practice of cancer prevention and control); *Mentored research training* in cancer prevention and control at the National Cancer Institute; *Brieffield assignments* in cancer prevention and control programs at other institutions. Fellows will be accepted for up to five years of training, beginning July 1, 1999. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

Research opportunities include but are not limited to: chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking cessation, social and behavioral research, statistical and epidemiological methodology, and translational research.

ELIGIBILITY

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current USMLE or ECFMG certification and appropriate experience, e.g., one-year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

OR

Ph.D. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health, or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

PLUS

The applicant must be a citizen or resident alien of the United States eligible for citizenship within four years.

To receive an application catalog either call, fax, e-mail, or send a postcard or letter with your name, home address, and where you heard about the program to:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director, Cancer Prevention Fellowship Program
National Cancer Institute
Executive Plaza South, Suite T-41
6130 EXECUTIVE BLVD MSC 7105
BETHESDA, MD 20892-7105

Further Inquiries:

Mrs. Barbara Redding
TEL (301) 496-8640
FAX (301) 402-4863
e-mail: br24v@nih.gov
<http://dcp.nci.nih.gov/cpfp/>

**DEADLINE FOR RECEIPT OF APPLICATIONS:
SEPTEMBER 1, 1998**

Selection for this training program will be based solely on merit, with no discrimination for nonmerit reasons, such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability.

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Phytera, Inc. is an international (US, UK, Denmark) biopharmaceutical company focused on applying novel technology platforms to the identification and optimization of new natural lead structures for pharmaceutical application. Recent successes in our R&D programs, partnerships and long-term financing are fueling considerable growth. Phytera's programs target cancer, infectious diseases, memory disorders, asthma, diabetes, stroke, myocardial infarction, inflammation and allergy. Our core technologies and expertise encompass plant and marine microbial cell culture, high-throughput screening, natural product and combinatorial chemistries and pharmaceutical development. Come join our dynamic team in the following rewarding career opportunities at Phytera.

Director/Senior Scientist

Phytera is committed to building the premier industrial Natural Product Chemistry group in the world. To achieve this goal, we are seeking a proven, entrepreneurial leader to direct the activities of an accomplished team engaged in the isolation and identification of novel bioactive chemical entities from plant cell and marine microbial cultures. Integration of the activities of this team with those of other internal R&D groups and Phytera's corporate partners is critical. You will also contribute to the growth of Phytera's strategic plan and its successful implementation within Natural Product Chemistry.

Requires a Ph.D. in Natural Product Chemistry, a minimum of 8 years' post doctoral experience and a strong track record of scientific achievement and experience in the management of a natural product chemistry group.

Natural Product Chemists

Several Scientist and Research Associate positions are available. You will work independently in a program aimed at the isolation and identification of novel bioactive chemical entities from plant cell and marine microbial culture sources. Each program requires close collaboration with other Phytera staff in Cell Culture, Pharmaceutical Screening, Combinatorial Chemistry and Preclinical Research. You may also collaborate with Phytera's corporate partners and with academic centers of excellence.

Scientist positions require a Ph.D. in Natural Product Chemistry and 2-10 years of post-doctoral experience. Research Associate positions require B.S. or M.S. with 2-8 years' experience.

We offer a positive, entrepreneurial and energetic environment as well as a competitive compensation package and opportunities for growth. Please send resume to: Human Resources, Phytera, Inc., 377 Plantation Street, Worcester, MA 01605. Fax : (508) 792-1339. E-mail: phyterahjc@aol.com

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BIOSCIENCES, INC.

DIRECTOR OF BIOLOGY

Genos Biosciences, Inc., a San Diego-based joint venture between Axys Pharmaceuticals, Inc. and the Memorial Sloan-Kettering Cancer Center, is seeking an experienced scientist to lead a group focused on the biological characterization of novel molecular targets for development of therapeutics and prognostic/diagnostic tools in oncology.

Qualifications include a Ph.D. in biochemistry, molecular, developmental, or cell biology with 10+ years experience. Applicants must have a publication record that demonstrates expertise with protein expression systems, antibody production, *in vivo* and *in vitro* assays, tumor biology, and transgenic animals. Previous experience managing a diverse group of scientists in the biotechnology industry is highly advantageous.

The company offers a highly competitive salary and excellent benefits. Please mail/FAX application and CV to Genos Biosciences, Inc., Attn: Human Resources, 11099 N. Torrey Pines Road, Suite 220, La Jolla, CA 92037. FAX (619) 558-7331.



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Available in the laboratory of Dr. Israel F. Charo to study Chemokine Receptors. Current projects include the use of knockout mice to study the role of chemokines/receptors in disease, leukocyte-endothelial cell interactions, and chemokine receptor trafficking. A strong background in molecular biology required. Candidate should possess Ph.D., M.D., or both.

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or fax to (415) 431-4039.
Email: hr@gladstone.ucsf.edu
Web: http://gladstone.ucsf.edu

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**Epidemiologist - Neuroendocrinology
Centers for Disease Control & Prevention
National Center for Infectious Diseases
Division of Viral & Rickettsial Diseases**

The Centers for Disease Control & Prevention, Viral Exanthems & Herpesvirus Branch, seeks an outstanding scientist with research interests in the neuroendocrine system's influence on chronic, psychiatric, and infectious disease states. The individual will be part of a multidisciplinary Chronic Fatigue Syndrome (CFS) Research Program and will share responsibility for developing epidemiology and clinical field studies, which are coordinated with the Program's Molecular Epidemiology Laboratory. The person in this position will provide the CFS Program with innovation in the conception, planning, and execution of epidemiologic research involving fatiguing illness, with particular focus on CFS and Gulf War illness.

Qualifications include an M.D. with a subspecialty in neurology or endocrinology, with appropriate postgraduate training in behavioral research and epidemiology; an M.D. with a subspecialty in psychiatry, with appropriate postgraduate training in endocrinology and epidemiology; a Ph.D. in psychology or another relevant field with appropriate postgraduate training in neurology, endocrinology, or epidemiology or equivalent training and research experience. Candidates will be evaluated based on (1) professional knowledge of current facts and theory in neuroendocrinology, psychiatry, molecular epidemiology, immunology, and stress physiology as related to chronically fatiguing illnesses; (2) ability to utilize epidemiological, biostatistical, and laboratory methods to design, manage, and evaluate epidemiology research programs involving stress, neuroendocrinology, clinical psychology, and chronic illnesses associated with fatigue; (3) written communication abilities; (4) oral communication abilities; and (5) skills in leading multidisciplinary epidemiology, statistical, and laboratory research programs.

The position will be an initial two year Research Fellow appointment. Annual salary range from \$55,400-\$85,104 depending on qualifications.

Interested applicants should send their CV and names of three references (including the current supervisor) by July 31 to Ms. Janie L. Oddy, Human Resources Management Office, Centers for Disease Control & Prevention, 1600 Clifton Rd., NE (C-12), Atlanta, GA 30341-3724. E-mail: jlo0@cdc.gov.



**EPIDEMIOLOGIST - HPV/Cervical Cancer
Division of Viral & Rickettsial Diseases
National Center for Infectious Diseases
Centers for Disease Control & Prevention**

The Centers for Disease Control & Prevention is seeking qualified applicants for an Epidemiologist position in the Viral Exanthems & Herpesvirus Branch, Division of Viral & Rickettsial Diseases. The incumbent will function as a key member of a multidisciplinary scientific team responsible for the development, implementation, and evaluation of novel laboratory-based epidemiologic research studies. This research includes identifying factors applicable to the etiology, diagnosis, therapy, and conduct of molecular epidemiologic studies of cervical cancer and HPV.

Qualifications include outstanding scientific credentials; experience and certification in oncology, OB/GYN, pathology, or epidemiology; and proven ability to engage in original laboratory-based epidemiologic research with other scientists. A medical degree or advanced degree (Ph.D., Sc.D., or other) in epidemiology is required. Candidates will be evaluated based on (1) professional knowledge of current facts and theory in cervical cancer, molecular epidemiology of HPV, immunology of HPV, and molecular biology of HPV; (2) ability to utilize epidemiological, biostatistical, and laboratory methods to design, manage, and evaluate epidemiology research programs involving HPV and cervical disease; (3) written communication abilities; (4) oral communication abilities; and (5) skills in leading multidisciplinary epidemiology, statistical, and laboratory research programs.

The position will be an initial two-year Research Fellow appointment. Annual salary range from \$55,400-\$85,104 depending on qualifications.

Interested applicants should send their CV and names of three references (including the current supervisor) by July 31 to Ms. Janie L. Oddy, Human Resources Management Office, Centers for Disease Control & Prevention, 1600 Clifton Rd., NE (C-12), Atlanta, GA 30341-3724. E-mail: jlo0@cdc.gov.

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RESEARCH SCIENTISTS/RESEARCH ASSOCIATES

Several positions are available to work with our cDNA array team, participating in the development of new arrays and contract research. Requires a background in PCR, gene cloning and sequencing. Must have experience in database searching and knowledge of Microsoft Word and Excel. Requires 2+ years' related experience, a Ph.D. or MS in Molecular Biology, Biochemistry, or related field. **Job Code: S9843GJ**

RESEARCH SCIENTIST/RESEARCH ASSOCIATE

Responsibilities will include development of software for gene expression analysis project. Requires 2+ years' in Biology with 1 year in computer programming. Knowledge of C, C++, Pascal or Fortran and experience in image analysis, internet navigation and genetic databases. Requires MS/Ph.D. in Molecular Biology, Biochemistry or related field. **Job Code: S9775NK**

RESEARCH SCIENTIST/RESEARCH ASSOCIATE

Responsibilities will include development of new technologies for gene expression analysis. Requires extensive knowledge of PCR, nucleic acid isolation, differential gene expression analysis and knowledge of internet navigation and genetic database analysis. **Job Code: S9777LD**

ASSOCIATE RESEARCH SCIENTIST

This position is focused on research and development to improve cDNA synthesis. Requires experience in protein purification and a background in the enzymology of nucleic acid synthesis. Requires a recent Ph.D. in Biochemistry or related field. **Job Code: S9819HW**

RESEARCH ASSOCIATE

This position will include development of fluorescent detection technology for our cDNA array project. Duties include running experiments on probe preparation and hybridization, followed by fluorescent detection, image processing, data analysis, and statistics. Requires a background in RNA/DNA preparation, PCR, gene cloning, sequencing, probe labeling, and basic organic chemistry. MS in Molecular Biology, Biochemistry, Organic Chemistry, or related field and 3+ years of relevant experience. **Job Code: S9781DB**

If you would like to work among a select group of talented individuals in the biotech industry where innovation is the key to success, please send your resume indicating position and Job Code to **CLONTECH Laboratories Inc.**, 1020 East Meadow Circle, Palo Alto, CA 94303, Attn: Human Resources. FAX: (650) 354-0775. Email: hr@clontech.com

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POSITIONS OPEN

TENURE-TRACK POSITIONS WAYNE STATE UNIVERSITY

Center for Molecular Medicine and Genetics

Wayne State University has allocated laboratory space, salary support, and generous start-up funds for the recruitment of outstanding individuals with a demonstrated interest in prostate cancer research. This program is designed to build a core of individuals at Wayne State University interested in basic and translational aspects of research on prostate cancer. The Center for Molecular Medicine and Genetics, directed by **Professor George Grunberger, M.D., FACP**, and the Prostate Initiative, directed by **Professor Kenneth V. Honn, Ph.D.**, invites applications for two tenure-track **ASSISTANT/ASSOCIATE PROFESSORSHIPS** with an anticipated starting date of approximately September 1, 1998. Applications are solicited from individuals with strong doctoral and postdoctoral training in molecular and cellular biology. Successful applicants should possess an M.D.-Ph.D. or Ph.D. The areas of research interest for successful applicants should include one or a combination of the following research directions: angiogenesis, cell cycle regulation, apoptosis or cell matrix interactions, and integrins. Preference will be given to applicants with demonstrated outstanding track records, a demonstrated interest in one of the above-mentioned areas of research, and in particular an emphasis on the study of prostate cancer. Applicants who do not have a demonstrated published track record in prostate cancer research should describe in detail, in their statement of research interest, how their research in one of the above areas could be applied to the problem of prostate cancer progression and metastasis. Applications should contain a full curriculum vitae, a statement of research interest and objectives, and three letters of recommendation, and should be sent to: **Dr. Kenneth V. Honn, Wayne State University, Department of Radiation Oncology, Cancer Biology Division, 431 Chemistry Building, Detroit, MI 48202. Telephone: 313-577-1018; FAX: 313-577-0798.**

Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smoke-free. Wayne State University—people working together to provide quality service.

ASSISTANT PROFESSOR CARDIOVASCULAR-RENAL PHYSIOLOGY

The Department of Physiology and Biophysics at the University of South Florida College of Medicine invites applications for a tenure-track faculty position at the rank of Assistant Professor to be filled during the 1998–99 academic year. Competitive salary and start-up funds are available for an individual who complements the current research interests of the Department and uses cellular and molecular techniques to study cardiovascular and/or renal physiology. This includes individuals with demonstrated ability to integrate molecular and whole animal studies. Applicants must have a Ph.D. and/or M.D. degree and at least three years of postdoctoral training. Successful applicants will be expected to establish an independent, nationally recognized research program supported by extramural funds and effectively teach medical and graduate students. Please send a cover letter that describes research and teaching interests with future plans, curriculum vitae, and the names of three references to: **Roger Shannon, Ph.D., Physiology Search Committee, Department of Physiology and Biophysics, University of South Florida, College of Medicine, Tampa, FL 33612-4799.** Applications must be received by August 15, 1998, to be considered. *USF is an Equal Opportunity Act/Affirmative Action/Equal Access. Minorities and women are encouraged to apply.* Disability accommodations, contact: **Dr. Shannon, Telephone: 813-974-1547; TDD: 813-974-2218** a minimum of five working days in advance. Website: www.med.usf.edu/PHYSIO/physiol.html.

The Department of Biology, Manhattanville College, seeks broadly trained **BIOLOGIST** with environmental/ecology background for a full-time tenure-track **ASSISTANT PROFESSOR** position. Applicants must have a Ph.D., or equivalent degree, and the ability to teach introductory biology, anatomy and physiology, developmental biology, and environmental courses in the minor program. Starting date is September 1998. Applicants should submit a cover letter including teaching philosophy and research interests, a current curriculum vitae, and the names of three references by July 8, 1998, to: **Dr. Annemarie Bettica, Chair, Biology Department, Manhattanville College, 2900 Purchase Street, Purchase, NY 10577. E-mail: abettica@mville.edu. Manhattanville College is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

ENVIRONMENTAL BIOLOGIST MICHIGAN STATE UNIVERSITY

The Department of Zoology invites applications for a tenure, academic year faculty position in environmental biology at the **ASSOCIATE/FULL PROFESSOR** level for fall 1999. The candidate should have a Ph.D. and record of successfully funded research in the areas of ecological toxicology of wild animal populations and/or community stress ecology. Preference will be given to candidates who work with aquatic species and have a proven record of research in environmental toxicology with a commitment to teaching at the interface of ecological science and environmental policy and a demonstrated record of involvement in environmental policy at the state, national, and/or international levels.

The University has very strong teaching and research programs in environmental sciences and engineering, environmental toxicology and ecology, evolution, and behavioral biology. The candidate is expected to contribute to current interdisciplinary activities across campus to integrate science and public policy. The salary and start-up package will be competitive and commensurate with the qualifications of the individual selected.

Applicants should submit a curriculum vitae, a letter outlining professional interests and goals, three letters of recommendation, and representative reprints to: **Environmental Biologist Search Committee, Department of Zoology, 203 Natural Science Building, Michigan State University, East Lansing, MI 48824-1115.** The application deadline is October 1, 1998, or until a suitable candidate is recruited.

Women and minority scientists are especially encouraged to apply. Michigan State University is an Affirmative Action/Equal Opportunity Institution. Disabled persons have the right to request and receive reasonable accommodation.

The Department of Zoology at North Carolina State University seeks applicants for **ASSISTANT PROFESSOR** of conservation biology. This 12-month position requires teaching and advising of undergraduate and graduate students, including the department's sophomore-level core course in ecology, evolution, and behavior, and development of an externally funded research program. Candidates should show potential for excellence in teaching and demonstrated research accomplishment in conservation biology. A Ph.D. is required. Postdoctoral experience is preferred. This position is available 1 November 1998. Applications will be reviewed beginning 1 August 1998 until the position is filled. A letter of application, statements of teaching philosophy and research interests, a curriculum vitae, and names of three references should be sent to: **Search Committee, Dr. James F. Gilliam, Department of Zoology, Box 7617, North Carolina State University, Raleigh, NC 27695.** Additional information is available on our website: <http://www.cals.ncsu.edu/zoology/>. NC State University is an Equal Opportunity/Affirmative Action Employer.

BOTANIST DEPARTMENT OF BIOLOGY SUNY NEW PALTZ

The Biology Department, State University of New York (SUNY) at New Paltz, reopens search for **TENURE-TRACK POSITION** in biology starting January or August 1999. Applicants must have Ph.D. with specialty in plant biotechnology. The successful candidate is expected to teach plant physiology, scanning electron microscopy, and one semester of general biology; develop courses in his/her specialty; and establish an independent research program. Send letter of application, curriculum vitae, representative publications, separate statements of research interests and teaching philosophy, and three letters of recommendation to: **Biology Search, Affirmative Action Office, HAB 301, SUNY New Paltz, 75 South Mannheim Boulevard Suite 9, New Paltz, NY 12561.** Review begins September 15, 1998. *Affirmative Action/Equal Opportunity Employment/ADA Employer.*

ASSISTANT PROFESSOR MOLECULAR GENETICS

Center in connective tissue diseases is seeking a Molecular Geneticist at the Assistant Professor level to conduct mouse and human research in the areas of musculoskeletal diseases such as osteoporosis. Experience in QTL, FISH, position cloning, antisense, and overexpression studies is essential. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and names of three references to: **Dr. Strong, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.**

POSITIONS OPEN

HEMATOLOGY ONCOLOGY UNIT MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL

The Hematology Oncology Unit of Massachusetts General Hospital (MGH) and the MGH Cancer Center are inviting applications for two positions at the level of **ASSISTANT PROFESSOR** of medicine at Harvard Medical School. MGH has joined Dana-Farber Cancer Institute and Brigham and Women's Hospital in a combined cancer program and is seeking to expand its research efforts in cancer biology. Specific areas of interest include cancer genetics, signal transduction, animal models, angiogenesis and metastasis, hematopoiesis, and molecular therapeutics. Successful candidates will have M.D. or M.D.-Ph.D. degrees, subspecialty clinical training in hematology and/or oncology, and demonstrated achievement in laboratory research. New faculty members will benefit from the wealth of clinical resources provided by the hospital, the strong support of the basic research effort within the MGH Cancer Center, and the opportunity to participate in the coordinated cancer programs across Harvard hospitals.

Please send curriculum vitae, a brief statement of research interests, and the names of three references to: **Dr. Daniel Haber, Associate Chief for Research, Hematology-Oncology Unit, Massachusetts General Hospital Cancer Center, Building 149-CNY 7, 13 Street, Charlestown, MA 02129.** Application deadline: September 1, 1998.

MGH is an Equal Opportunity/Affirmative Action Employer. Minority candidates and women are encouraged to apply.

ENVIRONMENTAL PHYSIOLOGIST

The Department of Animal Sciences, University of Illinois at Urbana-Champaign, invites applications for a tenure-track **ASSISTANT PROFESSOR** (60 percent teaching, 40 percent research) in environmental physiology. A Ph.D. in animal sciences or related biological science is required. The individual is expected to develop an internationally recognized, externally funded research program that will address relevant issues in animal housing and environmental management. The ability to integrate behavioral, immunological, and/or physiological measures to address relevant issues concerning management of animal environments is desired. The individual is expected to contribute to the department's teaching effort in introductory, upper-level, and graduate courses in the disciplinary area. Applications will be received until September 1, 1998, or until an outstanding candidate is identified. Applicant should submit a curriculum vitae, academic transcripts, and a cover letter describing past research and how it pertains to the current position announcement. Applicant should also ask three qualified individuals to send letters of reference. Application materials should be sent to: **Professor Robert Easter, Head, Department of Animal Sciences, University of Illinois, 1207 West Gregory Drive, Urbana, IL 61801.** Additional information concerning the Department of Animal Sciences is available at website: www.ansci.uiuc.edu. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST

We, at the College of Pharmacy and Pharmaceutical Sciences, Florida A&M University, are seeking applications to fill a research faculty position at the rank of **ASSISTANT/ASSOCIATE PROFESSOR**. The applicant must have a Ph.D. in molecular biology or a related field. The qualified Research Scientist will join a group focused on the development of novel antiviral and antifungal therapeutics and will use molecular biology techniques to contribute to the characterization of these agents. The candidate will also be given the opportunity to develop an externally funded research program. Applicants should submit a curriculum vitae, statement of future research plans, and names and addresses of three references to:

**Dr. Henry J. Lee
AIDS Research Program/RCMI
Florida A&M University
College of Pharmacy and Pharmaceutical Sciences
Tallahassee, FL 32307**

FAMU is an Equal Opportunity/Affirmative Action Employer. We invite and encourage applications from qualified African-Americans and women.



National Institute of Allergy and Infectious Diseases

Confocal Microscopist, NIAID, NIH

The National Institute of Allergy and Infectious Diseases (NIAID), NIH, seeks a dynamic individual to run its newly established Advanced Microscopy/Imaging Facility. The individual will manage a centralized 3-laser (plus UV laser) Scanning Confocal Microscope (a Leica TCS SP, with Imaging Spectrophotometer). The facility will also include other Image Capture technologies and Graphics Workstations. Duties include the operation and maintenance of the equipment and provision of confocal services, consultations, training, and technical support for user operation. Preference will be given to qualified candidates with extensive microscopy/imaging experience and demonstrated expertise in Confocal Microscopy. Salary will depend upon experience and qualifications. Interested candidates should submit a curriculum vitae, bibliography, three letters of reference, and detailed statement of research interests and selected publications by August 15, 1998, to:

Dr. Jonathan Yewdell
Search Committee Chair
4 Center Drive-MS C 440
Bethesda, MD 20892-0440

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POST DOCTORAL FELLOW EXPERIMENTAL PATHOLOGY

In this challenging role, you will participate in the development and characterization of in-vitro hematopoietic models for investigations of pathogenic mechanisms of drug-related hematotoxicity. You will also screen drug candidates for hematotoxic potential and for interspecies comparisons of hematotoxicity. We will also look to you to collaborate on a molecular toxicology project involving differential gene expression profiling for evaluating potential toxicity of new drug candidates.

To qualify, you must have a recent Ph.D. in Toxicology, Biochemistry, Cell Biology or related discipline. You'll also need experience in animal handling, cell/tissue culture, biochemical assays, molecular biology techniques, and a working knowledge of hematopoiesis. Independent research experience and excellent written and verbal communication skills are essential.

Our state-of-the-art Drug Safety facility in Chazy, New York, is located between the foothills of the Adirondack Mountains and the shores of beautiful Lake Champlain. If this position sounds good to you, connect with us by sending your resume with salary requirements to: **Wyeth-Ayerst Research, Position #OPSCI-3770, PO Box 7886, Philadelphia, PA 19101-7886, FAX: (610) 989-4854; Email: jobs@RAMAIL1.wyeth.com** (ASCII format, no attachments, subject: resume). Principals only. Equal Opportunity Employer, M/F/D/V



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POSITIONS OPEN

The National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health seeks a **FACILITY MANAGER** of its Transgenic Mouse Facility (TMF), to oversee a multiple-service facility, located in Frederick, Maryland. This position is offered as a **STAFF SCIENTIST** at a salary level dependent on relevant experience for a candidate who holds a Ph.D. or other doctoral degree in embryology, cell biology, molecular biology, or a related field, who has completed a Postdoctoral Research Fellowship, and who has experience in managing a transgenic mouse facility. Demonstrated ability to design and express gene constructs for production of transgenic animals and targeted mutants (knockouts) is required, as well as hands-on experience in procedures for rederivation of pathogen-free animals, and in managing complex rodent breeding. Familiarity with cryopreservation of mouse embryos is expected. Interested candidates should submit a curriculum vitae, list of publications, statement of relevant experience and professional goals, and three letters of reference to:

Dr. Ronald H. Schwartz
Transgenic Mouse Facility Search Committee
Building 4, Room 111
NIAID
National Institutes of Health
Bethesda, MD 20892

Closing date: July 31, 1998.
NIH is an Equal Opportunity Employer.

EDEN BIOSCIENCE CORPORATION EMPLOYMENT OPPORTUNITY

EDEN Bioscience Corporation is an agricultural biotechnology company located near Seattle, Washington. We are engaged in the discovery, development, manufacturing, and commercialization of protein-based plant vaccine and growth-enhancement products.

Job: RESEARCH ASSOCIATE II.

Duties: Will be an integral member of scientific team studying hypersensitive response elicitor-induced signal transduction pathways in plants. The successful candidate will provide protein purification and tissue culture handling in support of research on an elicitor-receptor system.

Qualifications: M.S. or B.S. with five years of experience in molecular biology or biochemistry. Plant research experience is desirable. Written and verbal communication skills as well as computer competency strongly desired.

Compensation: Salary and incentive programs dependent upon qualifications.

Send résumé to: **EDEN Bioscience Corporation, Human Resources Department, 11816 North Creek Parkway North, Bothell, WA 98011-8205.**

TRANSGENIC SCIENTIST PURDUE UNIVERSITY CANCER CENTER

The Purdue University Cancer Center has an immediate opening for a qualified individual to assume operational responsibility for the Cancer Center's newly developed and fully operational Transgenic Mouse Core Facility (TMCF). The TMCF offers both knockout and conventional transgenic services to the Purdue University community. Responsibilities and duties for this position include the generation of transgenic mice by pronuclear injection, gene targeting in ES cells, and the derivation of chimeric mice. The qualified candidate will have an M.S. or Ph.D. degree, experience in both ES cell culture and transgenic procedures, plus excellent communication and interpersonal skills. Qualified applicants should send their curriculum vitae and the names of at least three references to: **Transgenic Mouse Core Facility Position, Purdue University Cancer Center, Hansen Life Sciences Research Building, West Lafayette, IN 47907-1524.**

Purdue University is an Equal Opportunity Employer.

ASSISTANT SCIENTIFIC DIRECTOR GENE THERAPY

Center in connective tissue diseases is seeking a scientist at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level to conduct research and assist in the administration of a newly established center for gene therapy for musculoskeletal diseases, such as osteoporosis and various types of arthritis. Experience in viral vectors, gene delivery systems for *in vitro* and *in vivo* studies, and *in vivo* gene therapy work is essential. Administrative experience essential. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and names of three references to: **David J. Baylink, M.D., Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.**

POSITIONS OPEN

DIRECTOR OF INTERNATIONAL ZEBRAFISH STOCK CENTER University of Oregon

The University of Oregon seeks a Director for an International Zebrafish Stock Center, which will be built on the University campus. The Stock Center will maintain and make available to the research community wild-type and mutant zebrafish stocks, frozen sperm, and reagents. It will organize genetic markers, maintain the genetic map, and distribute information. The Director will work with an advisory committee of zebrafish researchers and local planners to design and construct the new facility, purchase equipment, set up and maintain a large-scale aquarium system, hire and train facility staff, and manage the activities of the Stock Center. With help from the advisory committee, the Director will be responsible for deciding which mutations to keep in the Stock Center as live fish and which as frozen sperm samples. The Director will need to interact efficiently with the zebrafish research community to solicit submission of mutant strains, reagents, and genetic map markers. Candidates should have an advanced degree and/or training in biology, experience with embryology and genetics (preferably zebrafish), and strong organizational and management skills. Salary commensurate with experience. For priority consideration application file must be complete by July 1, 1998. For more information about the Stock Center see website: http://zfsh.uoregon.edu/zf_info/dir.html. To apply contact:

Ellen McCumsey
Institute of Neuroscience
University of Oregon
Eugene, OR 97403-1254
Telephone: 541-346-3191
FAX: 541-346-4548

E-mail: ellenm@uoneuro.uoregon.edu

Affirmative Action/Equal Opportunity/ADA Institution committed to cultural diversity.

EDEN BIOSCIENCE CORPORATION EMPLOYMENT OPPORTUNITY

EDEN Bioscience Corporation is an agricultural biotechnology company located near Seattle, Washington. We are engaged in the discovery, development, manufacturing, and commercialization of protein-based plant vaccine and growth-enhancement products.

Job: SCIENTIST.

Duties: Will be an integral member of scientific team studying hypersensitive response elicitor-induced signal transduction pathways in plants. The successful candidate will provide advanced laboratory investigation in support of research on an elicitor-receptor system.

Qualifications: Ph.D. in molecular or cellular biology with a strong background in protein interaction and gene expression/regulation. Experience in working with plant systems is desirable. Strong interpersonal, team building, and communication skills a necessity, as well as demonstrable computer skills a necessity.

Compensation: Salary and incentive programs dependent upon qualifications.

Send résumé to: **EDEN Bioscience Corporation, Human Resources Department, 11816 North Creek Parkway North, Bothell, WA 98011-8205.**

CURATORIAL ASSOCIATE will oversee planning, management, and curation of the largest collection of birds in North America. Prepare and administer plans for refurbishment, improvements, and growth of collection and facilities, including computerization. The successful candidate will be in charge of a staff of scientific assistants and technicians and will report to the Department Chairman and Curators. This position requires a Ph.D., as well as knowledge of the birds of the world, experience in all aspects of museum curation, including procedures for specimen collection, preparation, cataloging, preservation, and conservation. Experience with field work, knowledge of database systems, and grant writing skills are anticipated. The salary will be commensurate with qualifications and experience. Please send résumé to: **Chairman, Department of Ornithology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.** *An Equal Opportunity Employer.*

POSITIONS OPEN

POPULATION DYNAMICISTS STOCK ASSESSMENT SCIENTISTS

The Population Dynamics Branch of National Oceanic and Atmospheric Administration's (NOAA) Northeast Fisheries Science Center, Woods Hole, Massachusetts seeks to fill several key positions for Population Dynamicists/Stock Assessment Scientists, to conduct research on single and multispecies fisheries. Incumbents should have quantitative skills (statistics, mathematics, and computer applications) as applied to natural resource problems. Starting salary range is \$46,000 to \$65,000, contingent upon training and experience. The Branch is responsible for meeting critical U.S. national and international demands for scientific information necessary to manage about 50 resource stocks in the region, and maintains extensive historical data on fish stocks and their environment.

These positions are open to all United States citizens through the Office of Personnel Management from June 15, 1998, through July 27, 1998, under announcement #AR1409 (Research Fishery Biologist) and #AR1406 (Operations Research Analyst). The positions will fill critical needs in stock assessment for northeast groundfish, Atlantic salmon, and for the development and implementation of assessment methods. For an application package call or write before the closing date of this announcement: **The Office of Personnel Management, The Raleigh Service Center, 4407 Bland Road, Suite 200, Raleigh, NC 27609. Telephone: 919-790-2822; website: www.usajobs.opm.gov.**

As an Equal Opportunity Employer, the Department of Commerce (DOC) does not condone or tolerate discrimination based on race, color, religion, sex, national origin, age, physical or mental disability, or sexual orientation. For additional information, contact: Ms. Sallie Langford, Department of Commerce/National Oceanic and Atmospheric Administration, EASC, 200 World Trade Center, Norfolk, VA 23510. Telephone: 757-441-6550.

The Division of Gastroenterology and Hepatology at Mayo Clinic in Rochester, Minnesota, is recruiting an individual to fill a **RESEARCH POSITION**. The candidate must hold a M.D. or Ph.D. degree, have national/international visibility as an Investigator, and have a track record of sustained federal funding in the United States or its equivalent abroad. His/her research interest should be relevant to gastroenterology and/or hepatology. The Mayo Clinic provides an outstanding research environment with substantial intramural support. Academic rank will be commensurate with the individual's experience. Interested applicants should submit a statement of research interests, curriculum vitae, bibliography, and a list of references to: **Dr. Nicholas F. LaRusso, Chair, Division of Gastroenterology and Hepatology, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905. E-mail: thornton.lisa@mayo.edu. Deadline for application is July 1, 1998. Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.**

TWO POSITIONS ECOLOGY AND GENETICS

Villanova University. Two temporary one-year appointments for 1998-99 in ecology and genetics, including graduate courses. Both positions will involve teaching non-science majors, as well as undergraduate and graduate biology majors. Ph.D. required. Submit letter of application, unofficial undergraduate and graduate transcripts, curriculum vitae, at least three letters of recommendation, and a statement of teaching philosophy to: **Dr. W. W. Baker, Department of Biology, Villanova University, Villanova, PA 19085-1699.** Applications will be reviewed as they are received until the positions are filled. Villanova University is a Roman Catholic University founded by and sponsored by the Augustinian Order, and seeks a faculty rich in diversity and dedicated to Villanova's Judeo-Christian value orientation. *An Affirmative Action/Equal Opportunity Employer.*

PLANT SYSTEMATIST. The Department of Biology at Sonoma State University seeks a broadly trained Plant Biologist with expertise in analytical and molecular techniques for studying plant evolution and systematics. This is an anticipated tenure-track position, beginning spring or fall 1999. See full announcement at website: www.sonoma.edu/biology or request by e-mail: phil.northern@sonoma.edu or FAX: **Dr. Philip T. Northern, FAX: 707-664-3012.** Applications postmarked by August 14, 1998, will receive priority consideration, and the final postmark deadline is September 25, 1998. *An Affirmative Action/Equal Opportunity Employer.*

**SUPERVISORY RESEARCH MICROBIOLOGIST
SUPERVISORY RESEARCH BIOLOGIST
RESPIRATORY VIRUS SECTION
RESPIRATORY AND ENTERIC VIRUSES BRANCH
DIVISION OF VIRAL AND RICKETTSIAL DISEASES
NATIONAL CENTER FOR INFECTIOUS DISEASES
CENTERS FOR DISEASE CONTROL AND PREVENTION**

The Centers for Disease Control and Prevention is seeking qualified applicants for Chief of the Respiratory Virus Section, Respiratory and Enteric Viruses Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases. The person will provide overall supervision for approximately 14 staff working on diagnostic, molecular characterization, molecular epidemiologic, and immunologic studies of the non-influenza respiratory viruses and human parvovirus B19. A candidate will also participate in epidemiologic studies related to these viruses and be expected to develop a research program on molecular characterization of non-influenza respiratory viruses, such as respiratory syncytial virus. A microbiologist, biologist, or biochemist with research experience in molecular characterization of respiratory viruses is being sought.

Qualifications preferred include a doctoral degree, significant scientific accomplishments in one or more areas of relevant research, and experience in developing, supervising, and leading a research program.

Salary range is \$65,466–\$85,104 (GS-14) to \$77,007–\$100,114 (GS-15) per annum, depending on qualifications. Moving expenses may be authorized.

Further information can be obtained from **Larry J. Anderson, M.D., Respiratory and Enteric Viruses Branch**, telephone: (404) 639-3596 or by e-mail: lja2@cdc.gov.

Interested candidates should send their curriculum vitae in confidence along with the names of three professional references to **Centers for Disease Control and Prevention, Attention: Ms. Janie Oddy, MSC-19, 1600 Clifton Road N.E., Atlanta, GA 30333** or by e-mail to jlo0@cdc.gov.

CDC is an Equal Opportunity Employer and provides a smoke-free environment.

**MEDICAL OFFICER
RESPIRATORY VIRUS SECTION
RESPIRATORY AND ENTERIC VIRUSES BRANCH
DIVISION OF VIRAL AND RICKETTSIAL DISEASES
NATIONAL CENTER FOR INFECTIOUS DISEASES
CENTERS FOR DISEASE CONTROL AND PREVENTION**

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Candidate must be a Medical Doctor with significant scientific accomplishments in one or more areas of relevant research, and experience in developing, supervising, and leading a research program.

Salary range is \$71,931–\$90,426 (GS-14) to \$77,361–\$99,123 (GS-15) per annum, depending on qualifications. Medical officers are eligible for Physicians Comparability Act special pay of \$9,000–\$20,000 per annum. Moving expenses may be authorized.

Further information can be obtained from **Larry J. Anderson, M.D., Respiratory and Enteric Viruses Branch**, telephone: (404) 639-3596 or by e-mail: lja2@cdc.gov.

Interested candidates should send their curriculum vitae in confidence along with the names of three professional references to **Centers for Disease Control and Prevention, Attention: Ms. Janie Oddy, MS C-19, 1600 Clifton Road N.E., Atlanta, GA 30333** or by e-mail to jlo0@cdc.gov.

CDC is an Equal Opportunity Employer and provides a smoke-free environment.

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U.S.: Bren Peters	Europe: Debbie Cummings
Phone: 202-326-6541	Phone: 44 (0) 1223 302 067
Fax: 202-289-6742	Fax: 44 (0) 1223 576 208
E-mail: science_displayads@aaas.org	E-mail: european_ads@science-int.co.uk

Calgene, L.L.C., a wholly owned subsidiary of Monsanto Company, is a leading agricultural biotechnology company focusing on the research and development of genetically engineered plant products for the nutrition and agricultural markets. Our continued success requires the skills of an experienced Research Scientist to play a central role in a variety of research efforts.

RESEARCH SCIENTIST

You will lead the biochemical research on genetic engineering for plant seed oil biosynthesis in several major oil crops. Specifically, you will be in charge of research on biosynthetic pathways in natural oil producers to identify engineering targets. We will also rely on you to oversee the biochemical investigations of transgenic oil seeds, including enzymatic and flux studies. Working with a multidisciplinary team, your work will integrate genomics, molecular biology, biochemistry and plant breeding.

At a minimum, this position requires a PhD in Plant Biochemistry or Physiology and experience concluding postdoctoral research projects. Ideal candidates have previously led projects using transgenics to manipulate or study biosynthetic pathways.

Calgene is proud to offer competitive wages and a comprehensive benefits package. For immediate consideration, send your resume and references to Calgene, L.L.C., 1920 Fifth St., Davis, CA 95616, Attn: Human Resources. Fax (530) 792-2453. EOE M/F/D/V



CALGENE

POSITIONS OPEN

POPULATION GENETICIST FISHERY BIOLOGIST

The Conservation Biology Division at the Northwest Fisheries Science Center (National Marine Fisheries Service), Seattle, Washington, seeks candidates for two permanent, full-time research positions. The Division is an interdisciplinary group of 25 to 30 scientists that conducts research supporting the conservation of Pacific salmon and living marine resources.

Population Geneticist (W/NMF/98308.CM). Requires strong mathematical and theoretical background in population or evolutionary genetics and a keen interest in conservation genetics. Incumbent will use quantitative methods to analyze and model evolutionary processes in natural and captive populations. Contact: **Dr. Gary Winans**, e-mail: gary.winans@noaa.gov.

Fishery Biologist (W/NMF/98309.CM). Requires strong background in mathematical population ecology. Incumbent will use mathematical and statistical techniques to examine population and metapopulation dynamics and extinction risk. Contact: **Dr. Jeff Hard**, e-mail: jeff.hard@noaa.gov.

Experience with salmon or other fish populations is desirable but not essential. Positions will be filled at the GS-12 level (salary range \$47,096 to \$61,230). Application information can be obtained at website: <http://www.usajobs.opm.gov> using the control numbers listed above; contact: **Cheryl Morisaki**, Telephone: 206-526-6059 for questions. Application deadline is 24 July 1998. Applicants must be U.S. citizens.

For additional information regarding either position or the Conservation Biology Division, contact: **Dr. Robin Waples**, Division Director, e-mail: robin.waples@noaa.gov or visit the Center's website: <http://research.nwfsc.noaa.gov>.

The U.S. Government is an Equal Opportunity Employer. Women and minority applicants are encouraged.

GEOLOGICAL OCEANOGRAPHER UNIVERSITY OF DELAWARE

The Graduate College of Marine Studies (CMS) at the University of Delaware seeks a Senior Geological Oceanographer to develop marine geosciences within CMS and to complement our existing strengths in chemical, physical, and biological oceanography and in marine biology. The successful candidate will be expected to develop an externally funded research program and to contribute to graduate education through teaching and advisement of graduate students. Active participation in the long-term planning (including faculty recruitment) of geoscience research and education, within both CMS and the University, is also expected. We anticipate that the candidate will start no later than August 1999.

Interested candidates should submit a curriculum vitae accompanied by a statement of research and teaching interests, along with the names, addresses, telephone, FAX, and e-mail contacts for at least three references to: **David Kirchman**, College of Marine Studies, University of Delaware, Lewes, DE 19958.

The selection process will begin September 15, 1998, and will continue until the position is filled. Information about CMS can be found at website: <http://www.ocean.udel.edu/>.

The University of Delaware is an Equal Opportunity Employer and encourages applications from minority group members and women.

POSTDOCTORAL FELLOW

The Molecular Cardiology Laboratory at the Mount Sinai School of Medicine has a research position available immediately. The candidate will have a Ph.D. or M.D. in cell or molecular biology for projects in the regulation of tissue factor synthesis in vascular cells.

Please send curriculum vitae to: **Mark Taubman**, M.D., Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1269, New York, NY 10029-6574. FAX: 212-860-7032. We are an Equal Opportunity Employer fostering diversity in the workplace.

RESEARCH ASSOCIATE position is available to study the role of aquaporins in aqueous humor dynamics. Candidates must have M.D. or Ph.D. with background in molecular biology, and experience in studying aquaporins using an oocyte system. Please send a curriculum vitae and three letters of recommendations by August 15, 1998, to: **Dr. Patil**, Department of Ophthalmology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110.

POSITIONS OPEN



GeoMed
GLOBAL COMMUNICATIONS

SCIENTIFIC EDITORS

Leading international medical education company has openings for communications professionals to participate in the development of global programs. Responsibilities will include the preparation and evaluation of a wide variety of copy, ranging from clinical manuscripts to promotional presentations. Strong writing/editing skills, a sound understanding of the biological sciences, and the ability to interact with clients and expert physicians are essential. Related experiences and a postgraduate degree are highly desirable.

Please send résumé to: **Personnel/Administration**, GeoMed Global Communications, 700 Plaza Drive, Secaucus, NJ 07094. FAX: 201-583-1358; e-mail: lralter@geomedglobal.com.

ECOTOXICOLOGIST/ECOLOGICAL RISK ASSESSOR. The New Jersey Department of Environmental Protection, Division of Science and Research, located in Trenton, New Jersey, is seeking an Ecotoxicologist/ Ecological Risk Assessor with expertise in aquatic systems.

Major responsibilities will include independent research and management of research relating to the understanding and characterization of current ecological communities in estuarine and other aquatic communities in New Jersey; review and assessment of indicators data; modeling of trends in communities in response to changes in toxics transport into aquatic systems (including dredging activities); and assessment of appropriate toxics loadings to aquatic systems.

Candidate should possess a doctoral degree and four (4) years of experience or a Master's degree and six (6) years of experience in a field related to ecological risk assessment, ecological toxicology, aquatic toxicology, or a related field. Knowledge of environmental fate and transport processes is desirable.

Salary is commensurate with experience. We offer an excellent fringe benefits package. To apply, send résumé with cover letter indicating minimum salary required. Telephone calls will not be accepted: **Cynthia Brown**, New Jersey Department of Environmental Protection, Division of Human Resources, P.O. Box 1447, Trenton, NJ 08607-1447.

POSTDOCTORAL POSITION University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School

Two NIH-funded Postdoctoral positions are available immediately for highly motivated individuals to study the roles of POU domain transcription factors in sensorineural development and diseases (e.g., see: *Neuron* 11:689; *PNAS* 93:3920; 93:11950; 94:9445; *Dev. Biol.* 197:155). Expertise in molecular biology and/or targeted gene disruption required. We provide fruitful research environment and competitive salary. Send curriculum vitae and three reference names to: **Dr. Mengqing Xiang**, Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 679 Hoes Lane, Piscataway, NJ 08854. E-mail: xiang@mbcl.rutgers.edu.

ROW CROP IPM ENTOMOLOGIST

Research/teaching tenure-track position. Responsibilities include: development of a research program in integrated pest management in row crops, to include cotton; cooperative research with other scientists; and teaching IPM principals and related courses. Ph.D. in entomology or related science. Experience with resistance management desired. Send letter of application, statement of research and teaching interest, and names of three references to: **IPM Search Committee**, Department of Entomology and Plant Pathology, Box 9775, Mississippi State, MS 39762-9775. Deadline: September 1, 1998. For more information contact: **Clarence Collison**, Telephone: 601-325-2085; FAX: 601-325-8837; e-mail: chc2@ra.msstate.edu. Mississippi State University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

MEDICAL TRAINING

DOCTORATES. Any field considered. Mature attitude, excellent teaching ability, with documented experience. Congenial personality and professional presence necessary. We train you for intensive laboratory instruction of Surgeons. Full-time position, no sales. Domestic and international travel required. Successful candidates will be based at Fort Worth, Texas. Beginning salary commensurate. Write or FAX for application information to: **Facilities Director, The Institute, A Division of Midas Rex, L.P., 3000 Race Street, Fort Worth, TX 76111-4116.** FAX: 817-834-4835. Equal Opportunity Employer.

INSTRUCTOR

Major medical equipment manufacturer seeking Ph.D. or Ed.D. to join a current faculty of eighteen. All academic doctor degree disciplines will be considered. We will prepare you for intensive laboratory instruction of Surgeons. Excellent teaching ability, congenial personality, and professional presence necessary. Full-time position; no sales. Domestic and international travel required. Successful candidates will be based at Fort Worth, Texas. Beginning salary commensurate. Write or FAX for application information to: **Facilities Director, The Institute, A Division of Midas Rex, L.P., 3000 Race Street, Fort Worth, TX 76111-4116.** FAX: 817-834-4835. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Three Postdoctoral positions are available immediately in physiology and cardiology at Allegheny University of the Health Sciences. The first is to work with **Edward LaBelle, Ph.D.** on the role of eicosanoids and phospholipases in vascular smooth muscle contraction; requires expertise in biochemistry and/or physiology. The second is to work with **Sidney A. Cohen, M.D., Ph.D.** on structural studies of the excitable membrane sodium channel; requires expertise in molecular biology and biochemistry. The third is to work with **Pia S. Pollack, M.D.** and Dr. Cohen on the role of retinoids in maintaining the adult cardiac myocyte phenotype; requires expertise in molecular biology and biochemistry. Send curriculum vitae and names of three references to: (the respective Investigator), c/o **Sidney A. Cohen, M.D., Ph.D., Department of Physiology, 2900 Queen Lane, Philadelphia, PA 19129.** FAX: 215-843-6367; e-mail: cohens@auhs.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION UNIVERSITY OF ARKANSAS AT LITTLE ROCK

Postdoctoral position available to study the role of vesicular transport on the structure and function of the contractile vacuole in *Dictyostelium discoideum*. An earned Ph.D. in biology, biochemistry, or related field is required. Preference will be given to candidates with documented expertise in one or more of the following areas: Rab protein structure and function, molecular analysis of vesicular transport, or molecular analysis of *Dictyostelium discoideum*. Send curriculum vitae and contact information for three references to: **Dr. John Bush**, Department of Biology, University of Arkansas at Little Rock, 2801 South University, Little Rock, AR 72204-1099. The position will remain open until filled.

The University of Arkansas at Little Rock is an Equal Opportunity/Affirmative Action Employer and actively seeks the candidacy of minorities, women, and persons with disability. Under Arkansas law, all applications are subject to disclosure. Persons hired must have proof of legal authority to work in the United States.

POSTDOCTORAL/RESEARCH ASSOCIATE YALE UNIVERSITY SCHOOL OF MEDICINE

Positions available to study molecular mechanisms of (a) cellular resistance to antineoplastic agents and (b) cellular differentiation. Applicants must have a Ph.D. or M.D.-Ph.D. Experience in cell or molecular biology and/or cancer research preferred. Send curriculum vitae and have three letters of recommendation sent to: **Dr. Alan C. Sartorelli**, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8066. FAX: 203-737-2045. Yale University is an Equal Opportunity/Affirmative Action Employer.

Deputy Associate Director for Applied Energy Technologies

Lawrence Livermore National Laboratory, conveniently located between San Francisco and the Silicon Valley, has an immediate opening for a Deputy Associate Director (DAD) to be involved with the Applied Energy Technologies Division.

Reporting to the Associate Director for Energy, provide leadership and direction for a multidisciplinary research organization with a budget of approximately \$25M. The mission of the Applied Energy Technologies Division is to develop commercially attractive energy technologies which can provide energy security without significant adverse effects on the environment while stimulating economic growth and improving the competitiveness of US industry in the global market.

Direct and manage the development of programs, facilitate accomplishing goals, interact with the Department of Energy sponsors and agencies to obtain funding and support, and facilitate partnerships on relevant technologies.

Requires a Ph.D. or equivalent in physical sciences or engineering, substantial technical background in energy sciences and technology, and knowledge of energy R&D activities with the DOE and other federal, state, local and industrial organizations.

Must show demonstrated leadership and competence in developing and managing a technical organization in a high technology R&D environment and be able to interact effectively with middle and senior managers.

U.S. Citizenship and the ability to obtain and maintain a Department of Energy "Q" clearance are required.

LLNL offers a challenging work environment and a competitive salary/benefits package. Interested candidates are invited to send a resume to: University of California, Lawrence Livermore National Laboratory, Attn: Mary Anne Holman, Dept AJSC6Q8ED, L-725, P.O. Box 808, Livermore, CA 94551-5510 or e-mail: holman4@llnl.gov. LLNL is an Equal Opportunity Employer.

Visit our website at www.llnl.gov/jobs for complete job descriptions and a listing of employment opportunities at LLNL.

University of California
 **Lawrence Livermore
National Laboratory**

Director, National Centers for Environmental Prediction

(A Senior Executive Service Position
in the Federal Government)

Vacancy Announcement NOAA#98-13

**Department of Commerce (DOC)
National Oceanic and Atmospheric
Administration (NOAA)
National Centers for Environmental
Prediction (NCEP)
National Weather Service (NWS)
Camp Springs, MD
\$106,412-125,900 annually**

The incumbent is responsible for the direction and administration of all NCEP activities. This includes resolving operational and technical management problems; maintaining surveillance over the organization; and, ensuring the timely and adequate implementation of established NWS/NCEP goals and programs. The incumbent must possess the following in order to qualify:

1. Broad background in physical and atmospheric sciences with demonstrated professional experience in one or more of the following: meteorology, weather research, climate, hydrology and/or environmental sciences.
2. Broad experience with basic and applied research and applications and policy issues.
3. Broad knowledge of the technological applications and weather research and policy issues that affect numerical weather and climate prediction programs.
4. Demonstrated experience in scientific program planning for weather and climate services.
5. Demonstrated knowledge with the processes and issues associated with medium and long-range numerical weather forecasting and climate prediction.
6. Substantial senior level experience in the leadership and administration of a large geographically dispersed scientific organization relevant to NCEP'S mission.

Please contact **301/713-0534, x206
(301/713-0973[TDD])**

(Internet: address: bridget.a.clark@hrmo.noaa.gov) for an announcement package, including mailing instructions—referring to the announcement number - OR - you may access the entire full-text vacancy from NOAA's Executive Resources Homepage (see below).

Incomplete applications will be returned.

<http://www.rdc.noaa.gov/~hrmo/er-home.htm>

This vacancy will close on
August 17, 1998

"NOAA Values a
Diverse Workforce
and is an Equal
Opportunity Employer"



POSITIONS OPEN

GENBANK DATABASE ANALYST COMPUTERCRAFT CORPORATION

Scientific Data Analyst to help build and maintain GenBank, the National Institutes of Health (NIH) DNA Sequence Database, produced by the National Center for Biotechnology Information (NCBI) at NIH. This position is with ComputerCraft Corporation, working as a contractor on location at NCBI. Responsibilities include review and analysis of DNA sequence submissions to GenBank from individual laboratories as well as sequencing centers, use of bioinformatics software to ensure database quality control, editing database records to conform to international sequence database guidelines, and extensive communication with scientists around the world regarding their sequence submissions. Excellent opportunity to use state-of-the-art computer systems and gain experience using bioinformatics tools developed by a leading computational biology research group. This is not a laboratory position, but extensive molecular biology laboratory experience is needed to understand the information in the database records and communicate with scientists. Ph.D. in molecular biology or related field required. Excellent communication skills required. Experience with computers and DNA sequence analysis software also important. Mail/FAX résumé with cover letter and list of references to: **ComputerCraft Corporation, 6707 Democracy Boulevard, Suite 101, Bethesda, MD 20817. FAX: 301-530-0634, Attn: Molecular Biologist.**

POSTDOCTORAL POSITIONS. Available for studies in various aspects of cancer research and toxicology in the Center in Molecular Toxicology through the Departments of Biochemistry, Cell Biology, Chemistry, Medicine, and Pathology. Areas of investigation relating to toxicology and carcinogenesis are (1) enzymatic oxidation and conjugation, (2) oxidative damage, (3) DNA damage and mutagenesis, (4) regulation of gene expression, and (5) environmental pathology. Center faculty include **Dr. Richard N. Armstrong, Dr. Raymond F. Burk, Dr. Richard M. Caprioli, Dr. Raymond N. DuBois, Dr. Doyle G. Graham, Dr. F. Peter Guengerich, Dr. Thomas M. Harris, Dr. Lawrence J. Marnett, Dr. Timothy J. Meredith, Dr. Jennifer A. Pietenpol, Dr. Ned A. Porter, Dr. Michael P. Stone, Dr. William M. Valentine, and Dr. Michael P. Waterman.** Salaries are negotiable. Applicants should submit curriculum vitae and three letters of recommendation to: **Dr. F. Peter Guengerich, Director, Center in Molecular Toxicology, Vanderbilt University, School of Medicine, Nashville, TN 37232-0146. An Affirmative Action/Equal Opportunity Employer.**

TECHNICAL SERVICE

Calbiochem-Novabiochem Corporation, located in San Diego, California, is a worldwide supplier of fine chemicals to the biotechnology research community with a track record of success. Excellent opportunity available to apply your scientific expertise in a business environment. Requires M.S./Ph.D. in biochemistry, immunology, or related field and two-plus years of laboratory experience or equivalent. Excellent communication skills are also required. Candidate will resolve biochemical and immunochemical applications inquiries by FAX and telephone. May also author and edit technical product literature. We offer a stimulating, professional environment and competitive salaries. Résumé with salary requirements to: **Director Human Resources, Code: TS/SCIENCE, 10394 Pacific Center Court, San Diego, CA 92121. Affirmative Action/Equal Opportunity Employer.**

RESEARCH COORDINATOR

The Molecular Cardiology Laboratory at the Mount Sinai School of Medicine has a research position available immediately. The candidate will have experience with recombinant DNA techniques, PCR, cloning, RNA isolation, protein purification, tissue culture, and immunohistochemistry. Master's degree preferred.

Please send curriculum vitae to: **Mark Taubman, M.D., Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1269, New York, NY 10029-6574. FAX: 212-860-7032. We are an Equal Opportunity Employer fostering diversity in the workplace.**

ANTIBODY EXPRESSION

Successful, rapidly growing biotechnology firm seeks expert on intermediate and large-scale recombinant antibody expression in mammalian cells. Extensive experience with yield optimization and scale-up required. Highly attractive compensation package. Send curriculum vitae to: **Science, 1200 New York Avenue N.W., Box 82, Washington, DC 20005.**

POSITIONS OPEN

ECOTOXICOLOGIST

The Environmental Laboratory of the U.S. Army Corps of Engineers, Waterways Experiment Station (WES), Vicksburg, Mississippi is seeking a **RESEARCH BIOLOGIST** (\$46,000 minimum salary, dependent on experience) with a background in aquatic ecotoxicology to participate in an active research program. *Applicants must be U.S. citizens* with a Ph.D. in environmental science, toxicology, or related discipline with demonstrated experience evaluating chronic and sublethal toxicity in aquatic organisms. Experience with mathematical modeling techniques to describe contaminant trophic transfer within food webs is desirable. Responsibilities will include developing experimental approaches for assessing contaminant bioavailability, sediment toxicity, and contaminant trophic transfer; preparing manuscripts for peer-reviewed publication; and performing risk assessments. Good communication, interpersonal, and technical writing skills are essential. Candidate screening will begin immediately and continue until the position is filled. Applicants should send a letter containing a statement of career objectives and research interests, a curriculum vitae, examples of recent publications, and the names of three references with postal and e-mail addresses, and telephone/FAX numbers to: **Dr. Todd S. Bridges, U.S. Army Corps of Engineers Waterways Experiment Station-ES-F, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199. WES is an Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP ION CHANNEL STRUCTURE AND FUNCTION

Study permeation and gating in ligand-gated ion channels (AMPA, Kainate, and NMDA receptors) using site-directed mutagenesis, whole-cell and outside-out patches (293 cells), two-electrode voltage clamp (oocytes). Focus is on defining structure-function relationships as they apply to permeation, ion channel block, and the action of agonists, antagonists, and allosteric modulators (*Neuron* 14:833-843; 15:453-462). Prior experience in electrophysiological techniques desirable. Send curriculum vitae, brief statement of prior research experience, and names of three references to: **Dr. M. L. Mayer, Laboratory of Cell and Molecular Neurophysiology, National Institute of Child Health and Human Development, Building 49, Room 5A78, 49 Convent Drive MSC 4495, NIH, Bethesda, MD 20892. FAX: 301-402-4777; e-mail: mlm@helix.nih.gov.**

NIH is an Equal Opportunity/Affirmative Action Employer.

International Centre for Theoretical Physics, administered by UNESCO, based in Trieste, Italy seeks **TECHNICAL CLERK** to assist Head, Microprocessor Laboratory. Requirements include CAD software tools, organization of courses. Minimum of five years of experience in designing scientific instrumentation, VLSI design, data processing, writing technical documentation, mathematic skills, working knowledge of computer programming. Fluency in English and Italian. Annual net salary LIT 52,187,000 tax-exempt. Fixed-term contract, one-year initial appointment, six-month probationary period, possible indefinite extensions. Further information at website: **www.ictp.trieste.it.** Applications to: **International Centre for Theoretical Physics, Personnel Office, Vacancy EU/TP/ITA/SC/1029, C.P. 586, Trieste 34100 Italy before 30 September 1998.**

POSTDOCTORAL POSITION

A Postdoctoral position is available immediately to investigate/develop dendritic cell-based therapies. A strong background in molecular biology/immunology preferably including experience with RNA work is desirable. Please send/FAX curriculum vitae and names of three references to: **Johannes Vieweg, M.D., Department of Surgery/Urology, Center for Genetic and Cellular Therapies, Box 2621, MSRB, Duke University Medical Center, Durham, NC 27710. FAX: 919-684-3805; e-mail: jv2@acpub.duke.edu.**

RESEARCH ASSOCIATE to study posttranscriptional regulation of the mRNAs for glucose transporters and cytokines by phosphoproteins. Experience in studying protein-RNA interactions and phosphoproteins desirable. **Dr. Chan Jung and Dr. Stephen Spaulding, VA Western New York Healthcare System and Departments of Medicine, Physiology, and Biophysics, SUNY at Buffalo, 3495 Bailey Avenue, Buffalo, NY 14215. VAWNYHCS and the Research Foundation of SUNY are Affirmative Action/Equal Opportunity Employers.**

POSITIONS OPEN

NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM Laboratory of Molecular and Cellular Neurobiology

POSTDOCTORAL POSITIONS are available to study alcohol and anesthetic actions on neurotransmitter-gated ion channels using patch-clamp electrophysiological recording. A strong background in neurophysiology or neuropharmacology is required. *Applicants must be U.S. citizens or permanent residents* with fewer than five years of postdoctoral experience. Applications are due by August 15, 1998.

Send curriculum vitae and three letters of reference to:

**Dr. Robert W. Peoples
Unit on Cellular Neuropharmacology
Laboratory of Molecular and Cellular Neurobiology
NIAAA/NIH
Park 5 Building, Room 158
12420 Parklawn Drive MSC 8115
Bethesda, MD 20892-8115**

Two **POSTDOCTORAL POSITIONS** at the University of South Florida. Position One, supported by NHLBI (**Ken Ugen, Ph.D.**, Principal Investigator) is to develop human monoclonal antibody passive immunotherapies against HIV-1 leading to clinical trials. Position Two, supported by NIDA (**Tom Klein, Ph.D.**, Private Investigator), is to define the distribution and function of the cannabinoid system in immune cells. Ph.D. or M.D. required with experience in immunology and molecular biology. Send inquiries to either: **Ken Ugen or Tom Klein, Department of Medical Microbiology and Immunology, MDC 10, University of South Florida, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612. E-mail: kugen@com1.med.usf.edu, tklein@com1.med.usf.edu.** For disabilities accommodations contact: **Dr. Ken Ugen, Telephone: 813-974-1917; TDD: 813-974-2218** a minimum of five working days in advance. According to Florida law, applications and meetings regarding the same are open to the public. *USF is an Equal Opportunity/Affirmative Action/Equal Access Institution.*

POSTDOCTORAL POSITION to investigate the significance of location, activity, and control of nitrate reductase in plants using mutants and transformants of *Arabidopsis* and pea with engineered NR expression. Desirable experience includes manipulation of plasmids for *Agrobacterium* transformation of plants, plant transformation, measurement of mRNA and protein levels in tissues, determination of enzyme activities, and other physiological measurements. Starting date 1 September 1998; salary \$26,000. Applications including cover letter summarizing relevant experience, curriculum vitae, and names, telephone numbers, and e-mail addresses of three references should be sent to: **Dr. John Cheeseman, Department of Plant Biology, University of Illinois, 505 South Goodwin Avenue, Urbana, IL 61801. E-mail: j-cheeseman@uiuc.edu; FAX: 217-244-7246. The University of Illinois is an Equal Opportunity Educator and Employer and specifically encourages applications from women and minorities.**

BIOCHEMISTRY OF EXOCYTOSIS

POSTDOCTORAL POSITION is available to study the effects of specific proteins on distinct steps in Ca²⁺-dependent exocytosis in adrenal chromaffin and other cells. Proteins include those of the rab3, SNARE, and latrotoxin pathways. Applicant should have expertise in molecular biology and biochemistry and a desire to combine biochemical and functional studies. Send curriculum vitae and bibliography to: **Dr. Ronald Holz, Department of Pharmacology, University of Michigan Medical School, Ann Arbor, MI 48109-0632. FAX: 734-763-4450; e-mail: holz@umich.edu. Affirmative Action/Equal Opportunity Employer.**

DEPARTMENT OF NEUROSCIENCES UNIVERSITY OF CALIFORNIA, SAN DIEGO

A **POSTDOCTORAL POSITION** is available to study cellular and molecular aspects of Alzheimer's disease. Highly interactive program emphasizing cellular and animal models of neurodegeneration. Projects involve signaling and apoptotic pathways related to presenilins. A strong background in cell and molecular biology is essential. Send curriculum vitae and three letters of recommendation to: **Dr. Edward H. Koo, Department of Neurosciences—0691, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093. E-mail: edkoo@ucsd.edu.**

Pharmaceutical Positions

Challenging and aggressive positions are available in a growing Pharmaceutical R & D Center of a Leading International Petroleum/Petrochemical Company.

- **CNS Discovery Leader**
(Ph.D.) (Code 98-DL)
- **Business Development Leader**
(Ph.D./M.S.) (Code 98-LBD)
- **Business Development**
(B.S./M.S.) (Code 98-BD)
- **Senior Behavior (Antidepressant) Pharmacologist**
(Ph.D.) (Code 98-SPH)
- **CNS (Antidepressant) Pharmacologist**
(B.S./M.S.) (Code 98-PH)
- **Pharmacokinetic Analytical Chemist**
(B.S./M.S.) (Code 98-AC)
- **Analytical Biochemist**
(B.S./M.S.) (Code 98-AB)

Qualifying candidates should send CV with cover letter in confidence to:

SK Corporation
Bio-Pharmaceutical R & D Center
HR (Job Position Code #)
P.O. Box 10271
Fairfield, NJ 07004

GLOBAL OPPORTUNITIES



INTERNATIONAL CENTRE FOR DIARRHOEAL DISEASE RESEARCH, BANGLADESH

DIRECTOR

The International Centre for Diarrhoeal Disease Research, Bangladesh (ICDDR,B) seeks to appoint its Director, who serves as its Chief Executive, for a three-year term starting on or before January 1, 1999, renewable for an additional term of three years.

ICDDR,B is a nonprofit international research institution situated in Dhaka, Bangladesh. Established under a charter of the Government of Bangladesh, it is a premier international organization conducting research and training in diarrhoeal disease and related areas of infectious diseases, public health, nutrition, and reproductive health. ICDDR,B aims to develop improved health programs through research conducted in four major divisions: Clinical Sciences, Health and Population Extension, Laboratory Sciences, and Public Health Sciences. The 1,400 employees include two hundred researchers coming from 10 countries. The Centre is supported by 14 countries, international organizations including WHO and UNICEF, and a variety of private foundations and corporations.

The post of the Director involves management of the Centre and guidance of its research and programs within the context of the Centre's priorities and objectives. The Director is also responsible for resource mobilization, creating institutional linkages both nationally and internationally, and establishing rapport with the host country government and resource contributors.

Given the complexity of this international research institution, the preferred applicant will have, in addition to a doctoral degree in an area of the Centre's research focus and a distinguished record of scientific leadership, a high order of team work and management skills, intimate familiarity with the issues of international health and development, sensitivity to the multicultural nature of the work environment, and spoken and written fluency in English. Ability to mobilize resources and strength in institutional advancement are of critical importance.

The compensation package offered is equivalent to an ASG/ADG in the UN/WHO system. In addition, there is a full range of benefits, including living accommodation and vehicle.

Applications must be submitted on or before September 30, 1998, to **Professor Helena Makela**, Chair of the ICDDR,B Search Committee, c/o National Public Health Institute, FIN-00300 Helsinki, Finland, telephone 358 9 4744 8235 or 358 40 5003341, fax 358 9 4744 8675, e-mail <pirjo.makela@ktl.fi>, with a copy to Ms. Julie Banfield, Secretary to the Search Committee, Director's Office, ICDDR,B, GPO Box 128, Dhaka, 1000, Bangladesh, telephone 880 2 883 031, e-mail <julie@citechco.net>. Selection of a candidate is expected during the November 1998 meeting of the Board of Trustees.

This vacancy is open to applicants of EITHER SEX. Applications from WOMEN are encouraged

The Neuroscience Research Institute of the University of Ottawa and the Ottawa Hospital seeks applications from basic researchers for two tenure-track equivalent appointments. These positions will be funded through the Institute, with generous start-up and equipment packages to be offered. The successful applicant will possess a strong background in molecular neurosciences applied to areas of particular research interest, which include neurotrophins and neuronal survival, mechanisms of sprouting and synaptic plasticity, receptor-mediated signal transduction mechanisms, regulation of apoptosis/proliferation/differentiation in brain, transgenic approaches to understanding brain function, and regulation of gene transcription in the brain.

These areas of research should broadly relate to conditions such as stroke, neurodevelopmental or neurodegenerative disease, or mental illness.

The NRI is a recently established institute focusing on developing innovative approaches to address mechanistic aspects of neuronal function. It is located on a thriving campus that includes the University of Ottawa basic medical science departments, several Research Institutes, and two tertiary care hospitals.

Please direct your application, including curriculum vitae, names of three references, and summary of proposed research, to:

Paul R. Albert, Ph.D.
Neuroscience Research Institute
University of Ottawa
451 Smyth Road
Ottawa, Ontario K1H 8M5 Canada

According to Canadian Immigration requirements, this ad is primarily addressed to Canadian citizens and landed residents of Canada. Applications will be received until September 30, 1998.

1998 FDA Science Forum Biotechnology: Advances, Applications, and Regulatory Challenges

December 8-9, 1998
Washington Convention Center,
Washington, D.C.

The FDA Science Forum will bring FDA research and review scientists together with representatives of industry, academia, government agencies, consumer groups, and the public to discuss the impact of the enormous advances in biotechnology on product development and regulation. Topics will include "biofarming and biopharming" (bioengineered plants and animals as sources of foods and drugs); diagnostics and detection methods; microbial pathogens, antibiotics, and resistance; therapeutic and preventive agents (novel therapies, gene therapy, cell and tissue engineering, vaccines); new models/methods for safety and efficacy assessment; and regulatory challenges. Regulatory issues related to standards and product quality and the impact of the Food and Drug Administration Modernization Act will also be addressed. The Forum will feature plenary lectures and focused discussion groups that include FDA, industry, and university leaders in the field. Co-sponsored by FDA, American Association of Pharmaceutical Scientists, and FDA Chapter, Sigma Xi.

For information, 703-518-8429, meetings@aaps.org.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS IN CARDIOVASCULAR DISEASE University of Alabama at Birmingham

Applications are being accepted for Postdoctoral positions in this NIH training program starting July 1, 1998. These NIH positions are limited to U.S. citizens and permanent residents.

Mechanisms and Consequences of Coronary Heart Disease (CHD). The Division of Cardiovascular Disease at University of Alabama at Birmingham (UAB) offers Postdoctoral Clinical and Basic Research Fellows (M.D. and/or Ph.D.) a minimum of two years of intensive basic research training in a multidisciplinary program in CHD. This program will provide the knowledge, skills, and motivation for young scientists to become independent and productive Investigators in vascular biology and cardiovascular research. Hands-on training will be provided in areas related to the biochemical, molecular, and cellular pathophysiologic mechanisms underlying the initiation, mechanisms, and consequences of CHD.

Inquiries: **Francois M. Booyse, Ph.D., University of Alabama at Birmingham, 845 19th Street South, Birmingham, AL 35294-2170.**

Participation by minority candidates is encouraged.

POSTDOCTORAL POSITIONS IN HUMAN GENETICS

The Division of Genetics, Department of Medicine, and Institute of Human Genetics seeks three Postdoctoral Associates for the following areas: (1) expression and purification of tyrosinase for crystallography studies (in conjunction with Structure Biology, Department of Biochemistry); (2) transgenic analysis of pigment genes; and (3) studies of the role of melanin pigment on retinal development. Opportunities to interact with a variety of Biological Scientists exist. The applicants should have a Ph.D. and relevant experience in biochemistry, molecular biology, and/or cell biology. Send letter of interest, curriculum vitae, summary of research experience, and the names of three references to: **Richard King, M.D., Ph.D., University of Minnesota, Box 485 Mayo, 420 Delaware Street S.E., Minneapolis, MN 55455.** The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION at UCLA available immediately. Research on (1) function of novel forms of human IgE, (2) molecular control of isotype switch, and (3) protein engineering of IgE for new biologic functions. Studies involve *in vivo* and *in vitro* biologic functions of IgE isoforms and molecular studies on IgE regulation. Background in immunology and biochemistry important. Please FAX curriculum vitae to: **Dr. Andrew Saxon, M.D., UCLA School of Medicine, Telephone: 310-206-8107; e-mail: asaxon@med1.medsch.ucla.edu.** An Equal Opportunity Employer.

NEUROSCIENCE

A grant-funded **POSTDOCTORAL POSITION** is available immediately to use patch-clamp methods to study opiate receptor-modulated ion channels in dissociated neurons. Ph.D. is required; electrophysiology experience is preferred. Send curriculum vitae, with research experience, and names and telephone numbers of three references to: **Jonathan E. Freedman, Ph.D., 211 Mugar Building, Northeastern University, Boston, MA 02115.** Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** in the interface of molecular biology and chemistry available to dissect mammalian signaling networks. The first position requires candidates with extensive experience in molecular biology, cell culture. The second position requires candidates with a Ph.D. in synthetic chemistry. Send curriculum vitae and references to: **C. Wilson Xu, Ph.D., Box 362, Sloan-Kettering Institute, 1275 York Avenue, New York, NY 10021.** E-mail: **w-xu@ski.mskcc.org.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

To study the role of HHV-8 and/or HIV in Kaposi's sarcoma (*N. Engl. J. Med.* 336:163, 1997; *J. Clin. Invest.* 99:2971, 1997). Experience in molecular biology and virology desirable. Send curriculum vitae and three letters of reference to: **Dr. K. Foreman, Cardinal Bernardin Cancer Center, Room 302, Loyola University Medical Center, 2160 South 1st Avenue, Maywood, IL 60153.** An Equal Opportunity Employer/Educator.

POSITIONS OPEN

POSTDOCTORAL POSITIONS FUNCTIONAL GENOMICS OF MICROBES

Two Postdoctoral positions are available, one in Environmental Sciences Division, Oak Ridge National Laboratory (ORNL) and the other at the Center for Microbial Ecology, Michigan State University (MSU), for individuals with training in molecular biology, biochemistry, and microbiology to participate in a joint project related to functional genomics of one of the fully sequenced microbial genomes, *Shewanella putrefaciens* MR-1. Candidates must have a Ph.D. degree with demonstrated experience in techniques such as gene cloning, gene expression, vector development, RNA isolation and analysis, and/or functional genomics. Additional experience in bioinformatics for position at ORNL and in microarray technology for the position at MSU are desired. The applicants will work cooperatively with scientists at ORNL, MSU, The California Institute of Technology, and The Institute of Genomic Research. Please send a curriculum vitae, a description of research accomplishments and interests, and the names and telephone numbers of three references by September 1, 1998, or until filled, to: **Dr. Jizhong Zhou, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6038.** FAX: 423-576-8646; e-mail: **zhouj@ornl.gov** and/or **Dr. James M. Tiedje, Center For Microbial Ecology, Michigan State University, East Lansing, MI 48824-1325.** FAX: 517-353-2917; e-mail: **tiedje@pilot.msu.edu.** The position at ORNL is available in the fall 1998 and at MSU in the spring of 1999.

Please reference project ORNL #98-14 when applying for this position.

The initial appointment will be for one year, and renewable with satisfactory performance for up to three years. It is offered through the ORNL Postdoctoral Research Associates Program which is jointly administered by ORNL's Office of University and Science Education and the Oak Ridge Institute for Science and Education. This program is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.

POSTDOCTORAL POSITION available immediately to study stress- and glucocorticoid-related regulation of potassium channel molecular and functional properties in adrenal chromaffin cells and other neural tissues. Integrative application of molecular, patch clamp electrophysiological, and immunocytological methods are used to address problems of dynamic regulation of channel properties and its consequences. For more information see: **Xie, J. and McCobb, D. P., Science 280:443-446.** Please send curriculum vitae, a brief statement of interests, and names of references to: **Dr. David P. McCobb, Section of Neurobiology and Behavior, Cornell University, Ithaca, NY 14853.** FAX: 607-254-4308; e-mail: **dpm9@cornell.edu.**

POSTDOCTORAL POSITION available July 1, 1998, for Ph.D. or M.D. with training in protein purification, mutagenesis, cell biology, and molecular cloning to study upstream signaling of activating the p53 tumor suppressor in response to cellular stress, and the p53 homologs in gene regulation. Send curriculum vitae and three references to: **Dr. Hua Lu, Department of Biochemistry and Molecular Biology, L224, Oregon Health Sciences University, Portland, OR 97201-3098.** FAX: 503-494-8393; Telephone: 503-494-7414; e-mail: **luh@ohsu.edu.**

OHSU is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study hedgehog signal transduction: either receptor structure/function (e.g., *Nature* 348:129, 1996) or mechanisms of transcriptional activation (e.g., *Mech. Dev.* 68:149, 1997). Experience in protein biochemistry or developmental genetics is helpful. Send curriculum vitae and three reference names to: **Dr. Joan Hooper, CSB B-111, University of Colorado Health Sciences Center, 4200 East 9th Avenue, Denver, CO 80262.** E-mail: **hooperj@essex.uchsc.edu.**

POSTDOCTORAL POSITION available to carry out analyses of T cell receptor recognition in murine models of autoimmunity. Experience in cellular/molecular immunology and/or biophysical techniques preferred. Please send curriculum vitae and details of three referees to: **Dr. E. Sally Ward, Department of Microbiology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8576 USA.** E-mail: **sally@skylab.swmed.edu.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE POSITION AVAILABLE IMMEDIATELY

Postdoctoral Research Associate position available immediately for Ph.D. or M.D.-Ph.D. graduate in cellular or molecular biology with an interest in integrin receptors and tumor cell metastasis. The project involves the study of a newly isolated and novel form of the α IIb receptor. The study will place emphasis on prostate cancer and cancer metastasis in general. Successful candidates should have demonstrated experience with standard molecular biology and cell biology techniques. Previous experience with integrin biology is desirable. Preference will be given to candidates with demonstrated research ability and strong written communication skills. Minimum salary \$28,000 dependent upon experience. Please send a brief statement of research interests, capabilities, and goals; curriculum vitae; address, FAX/telephone numbers; and three references to: **Dr. Kenneth V. Honn, Professor, Re: Integrin Receptors, 431 Chemistry Building, Wayne State University, Detroit, MI 48202.** E-mail: **k.v.honn@wayne.edu.**

Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at Wayne State University are smoke-free. Wayne State University—people working together to provide quality service.

POSTDOCTORAL POSITION in biochemistry available to study the molecular mechanisms of thrombosis on model planar lipid membrane systems using both *in vitro* and *in vivo* systems (*Macromolecules* 30:6483-6487, 1997; *Langmuir* 13:5697-5701, 1997). This project is funded by the NIH. Applicants should have a Ph.D. degree with training in biochemistry. Experience with TIRF plus. The successful candidate will have the opportunity to interact with members of the chemistry, vascular biology, and thrombosis communities at Emory University and at several collaborating institutions. Send curriculum vitae and names of three references with e-mail addresses to: **Dr. Elliot L. Chaikof, Emory University, 1639 Pierce Drive, 5105 WMB, Atlanta, GA 30322.** FAX: 404-727-3660; e-mail: **echaikof@surgery.emory.edu.** Emory University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

The Division of Neoplastic Diseases at the Mount Sinai School of Medicine has a position available to study the biology and molecular mechanism of androgen resistance of prostate cancer cells with the aim of testing treatment strategies for clinical trials. Candidates must have a background in cancer biology, documented experience in tissue culture, as well as molecular and cell biology techniques.

Candidates should FAX curriculum vitae to: **Dr. Anna C. Ferrari, Division of Neoplastic Diseases, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** FAX: 212-860-7186. We are an Equal Opportunity Employer fostering diversity in the workplace.

POSTDOCTORAL POSITION available immediately to study the regulation and expression of vasoactive mediators in the pulmonary circulation and in acute lung injury. Experience in molecular biology, especially in transcriptional regulation, is desirable. Send or e-mail curriculum vitae and names of three references to: **Dr. Gary Visner, Department of Pediatrics, University of Florida, Box 100296, Gainesville, FL 32610.** Telephone: 352-392-4458; FAX: 352-392-4450; e-mail: **visnega@peds.ufl.edu.**

POSTDOCTORAL POSITIONS available immediately to study molecular biology, enzymology, or synthetic medicinal chemistry of central nervous system and other diseases. Candidates interested in joining this new NIH-funded multidisciplinary research program should send a curriculum vitae, the names and telephone numbers of three references to: **John Cashman, Human BioMolecular Research Institute, 4 Nickerson Street, #100, Seattle, WA 98109.** E-mail: **ledcash@aol.com.** Affirmative Action/Equal Opportunity Employer.

NIH-funded **POSTDOCTORAL POSITION** available immediately to study signal transduction pathways regulating cell cycle checkpoints, apoptosis, and transformation. Qualified applicants should have a Ph.D. with experience in cellular and molecular biology. Please FAX curriculum vitae to: **Dr. Kam-Meng Tchou-Wong, Department of Medicine, New York University Medical Center, 550 1st Avenue, MSB 147, New York, NY 10016.** FAX: 212-263-8902.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION VIRAL EXANTHEMS AND HERPESVIRUS BRANCH Division of Viral and Rickettsial Diseases Centers for Disease Control and Prevention

The Viral Exanthems and Herpesvirus Branch (VEHB) Molecular Epidemiology Group is looking for a Postdoctoral-level scientist with a strong desire to apply state-of-the-art molecular technology to important biologic questions of public health significance. Desire to work in a collaborative multidisciplinary environment is required as is experience with RNA molecular protocols. A background in experimental pathology is a plus.

The Postdoctoral position is to investigate the molecular pathology of human papillomavirus infection and oncogenesis. Current studies include analysis of viral gene expression in infection and malignancy and molecular markers of prognosis in cervical cancer. The work will require development of RT-PCR and other molecular assays applicable to clinical samples.

Address replies with statement of interests, curriculum vitae, and three references to: **Dr. Elizabeth Unger**, Telephone: 404-639-3533; e-mail: eru0@cdc.gov.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE Molecular Mechanisms of Birth Defects

Positions available to investigate molecular, molecular genetic, and/or cellular signal transduction mechanisms of mammalian embryonic development. Emphasis directed toward clarification of interactions among growth factors, protein kinases, and transcription factors in regulating gene expression. Background in molecular/molecular genetic methodologies, cell and/or developmental biology required.

Applicants should submit curriculum vitae, a statement of current research activities, and names of three references to: **Dr. Robert Greene**, Laboratory of Molecular Craniofacial Development, Department of Biological and Biophysical Sciences, ULSD, University of Louisville, Louisville, KY 40292. The University of Louisville is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION MOLECULAR NEUROSCIENCE ALZHEIMER'S DISEASE

A Postdoctoral position is available immediately to study mechanisms of inflammation in Alzheimer's disease and transgenic mouse models of Alzheimer's disease at the level of gene expression. Candidates with molecular biological, neuroanatomical, and cell culture expertise are strongly encouraged to apply for this position.

Qualified candidates should forward curriculum vitae and the names of three references to: **Giulio Maria Pasinetti, M.D., Ph.D., Director of Neuroinflammation Research Laboratory, Department of Psychiatry, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. Telephone: 212-241-5579. We are an Equal Opportunity Employer fostering diversity in the workplace.**

POSTDOCTORAL POSITIONS. We seek Ph.D./M.D. scientists trained in cell and molecular biology who wish to engage in research on inflammation/tissue regeneration/development using knockout and transgenic mice models (see: *J. Exp. Med.* 187:517, 1998; *J. Biol. Chem.* 272:22667, 1997) in an interactive and highly supportive research program at the University of Tennessee College of Medicine. Competitive salaries and fringe benefits will be offered. Interested applicants should submit a curriculum vitae and three references to: **Dr. R. Raghov** or **Dr. L. R. Ballou**, University of Tennessee Memphis, 1030 Jefferson Avenue, Memphis, TN 38104. FAX: 901-577-7273; e-mail: rraghow@utmem1.edu. Women and minorities are especially encouraged to apply.

POSTDOCTORAL ASSOCIATE. Postdoctoral position available immediately to study the physiology of organisms from extreme environments. Ph.D. required in microbiology, biology, chemical engineering, or related field with experience in microbial physiology and molecular biology. Send curriculum vitae and three letters of recommendation to: **Professor Tonya Peebles**, Department of Chemical and Biochemical Engineering, 125 Chemistry Building, University of Iowa, Iowa City, IA 52242. E-mail: tonya-peeles@uiowa.com. Women and minority candidates are encouraged to apply. The University of Iowa is an Affirmative Action/Equal Opportunity Employer.

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Vicerrector de Política Académica y
Nuevas Enseñanzas
Universidad de Castilla-La Mancha
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c/o Altagracia, 50
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Department of Biology
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ANNOUNCEMENT

LOIS POPE LIFE CENTER AWARD THE UNIVERSITY OF MIAMI SCHOOL OF MEDICINE

The University of Miami School of Medicine announces the first Lois Pope LIFE Center Award for important discoveries in the field of neurological injury and disease. Nominations of persons who have made important discoveries in the field of neurological injury and disease that lead to improved clinical management are specifically requested. The first award is scheduled to be given in early 1999. This award is in the amount of \$100,000 US and is to be used by the recipient to further research activities in the area of neurological disease. This award is made possible through the generosity of Mrs. Lois Pope. Please send nominations to: **W. Dalton Dietrich, Ph.D., Scientific Director, The Miami Project to Cure Paralysis**, University of Miami School of Medicine, R-48, P.O. Box 016960, Miami, FL 33101. Equal Employment Opportunity/Affirmative Action.

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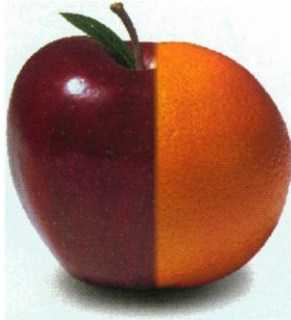
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